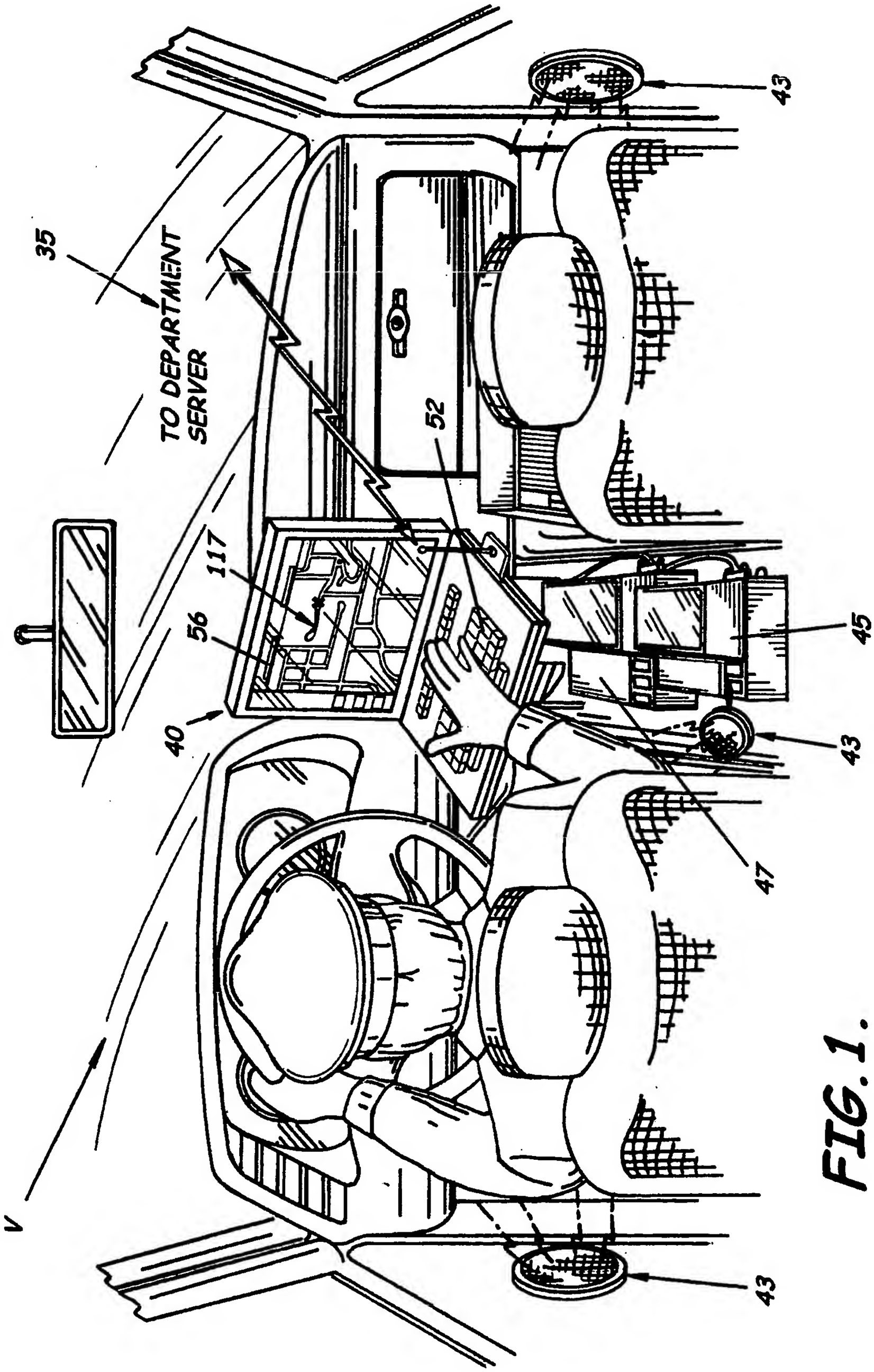


FIG. 1.

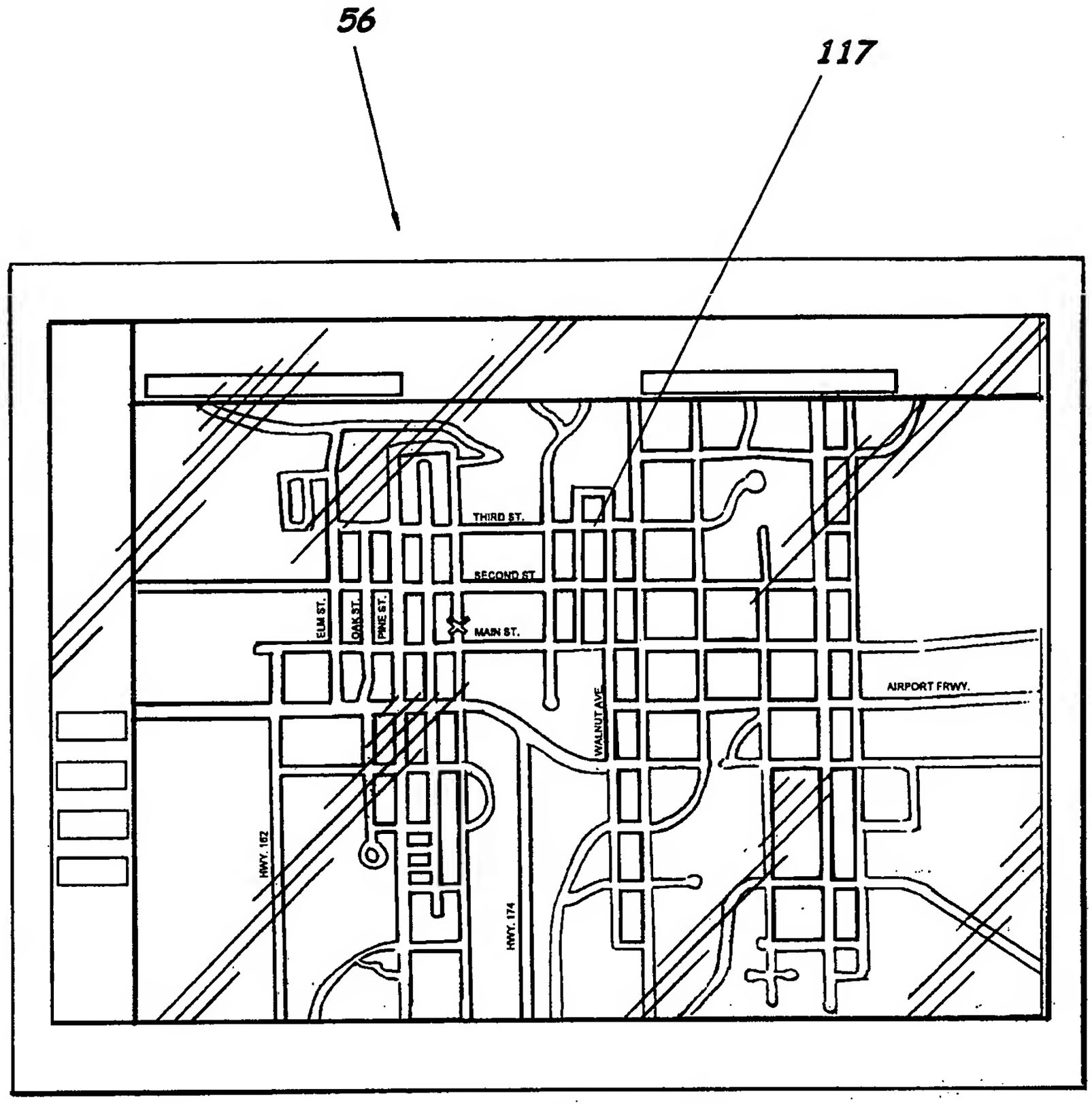

56
117
THIRD ST.
SECOND ST.
ELM ST.
OAK ST.
PINE ST.
MAIN ST.
AIRPORT FRWY.
WALNUT AVE.
HWY. 162
HWY. 174

FIG. 2.

FIG. 3.

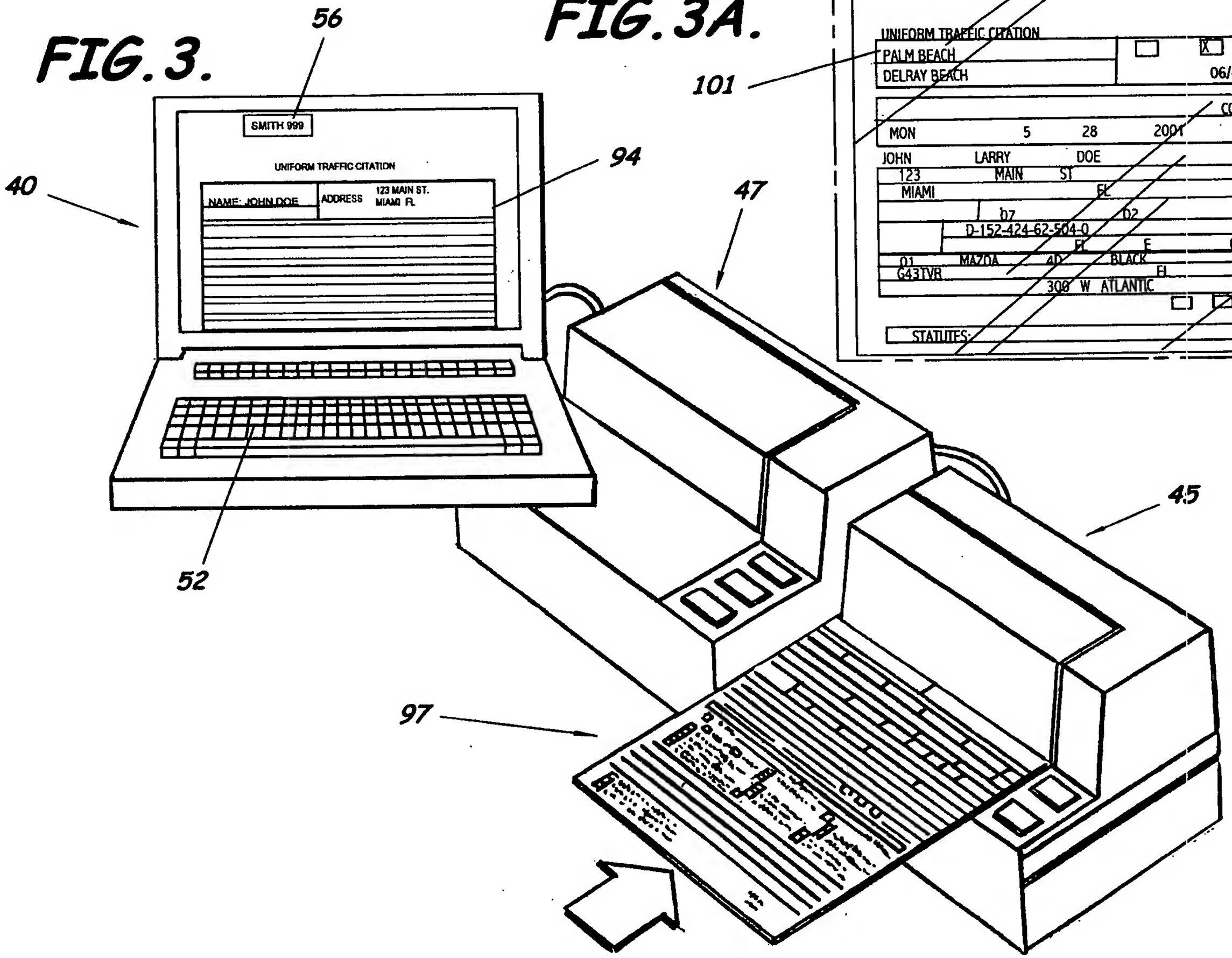

56
SMITH 999
UNIFORM TRAFFIC CITATION
NAME: JOHN DOE
ADDRESS
123 MAIN ST.
MIAMI FL
40
94
47
52
45
97

FIG. 3A.

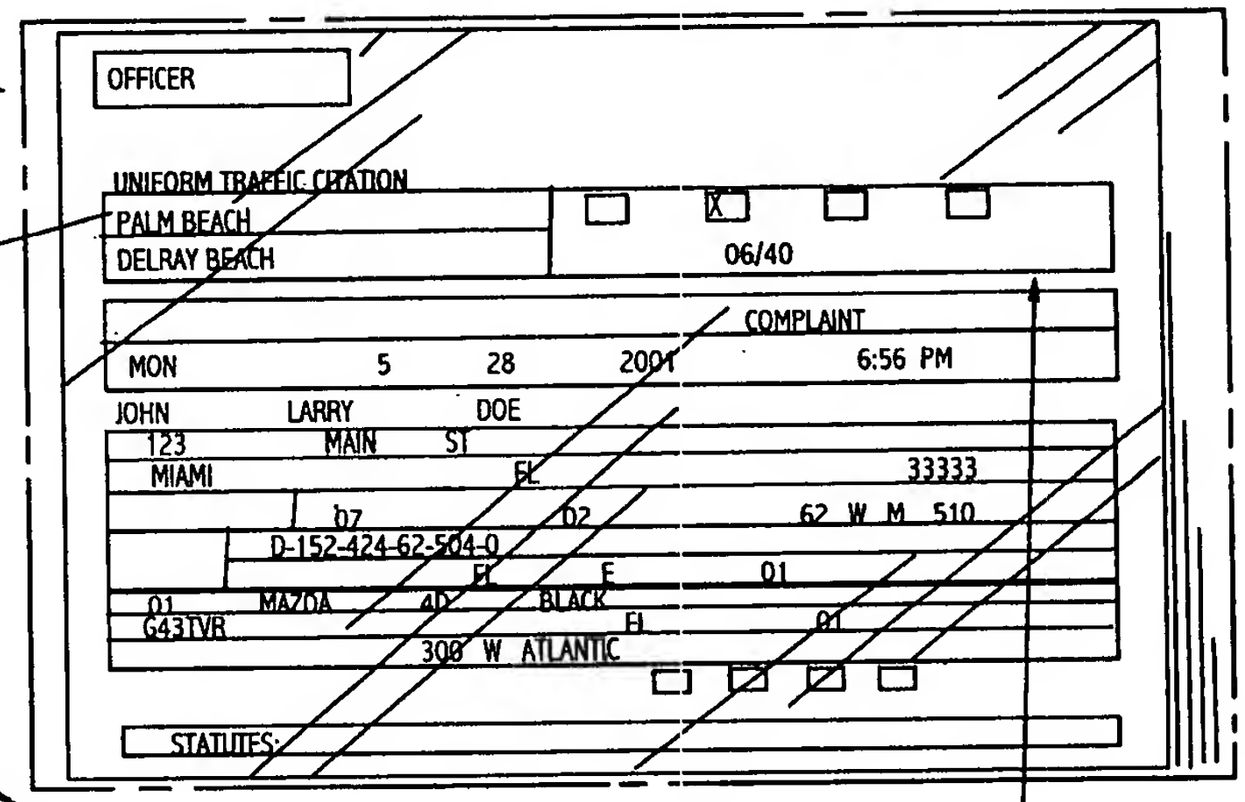

56
OFFICER
UNIFORM TRAFFIC CITATION
PALM BEACH
DELRAY BEACH
X
06/40
101
COMPLAINT
MON 5 28 2001 6:56 PM
JOHN LARRY DOE
123 MAIN ST
MIAMI FL 33333
07 02 62 W M 510
D-152-424-62-504-0
FL F 01
01 MAZDA 4D BLACK
G43TVR FL 01
300 W ATLANTIC
STATUTES:
94

FIG. 4.

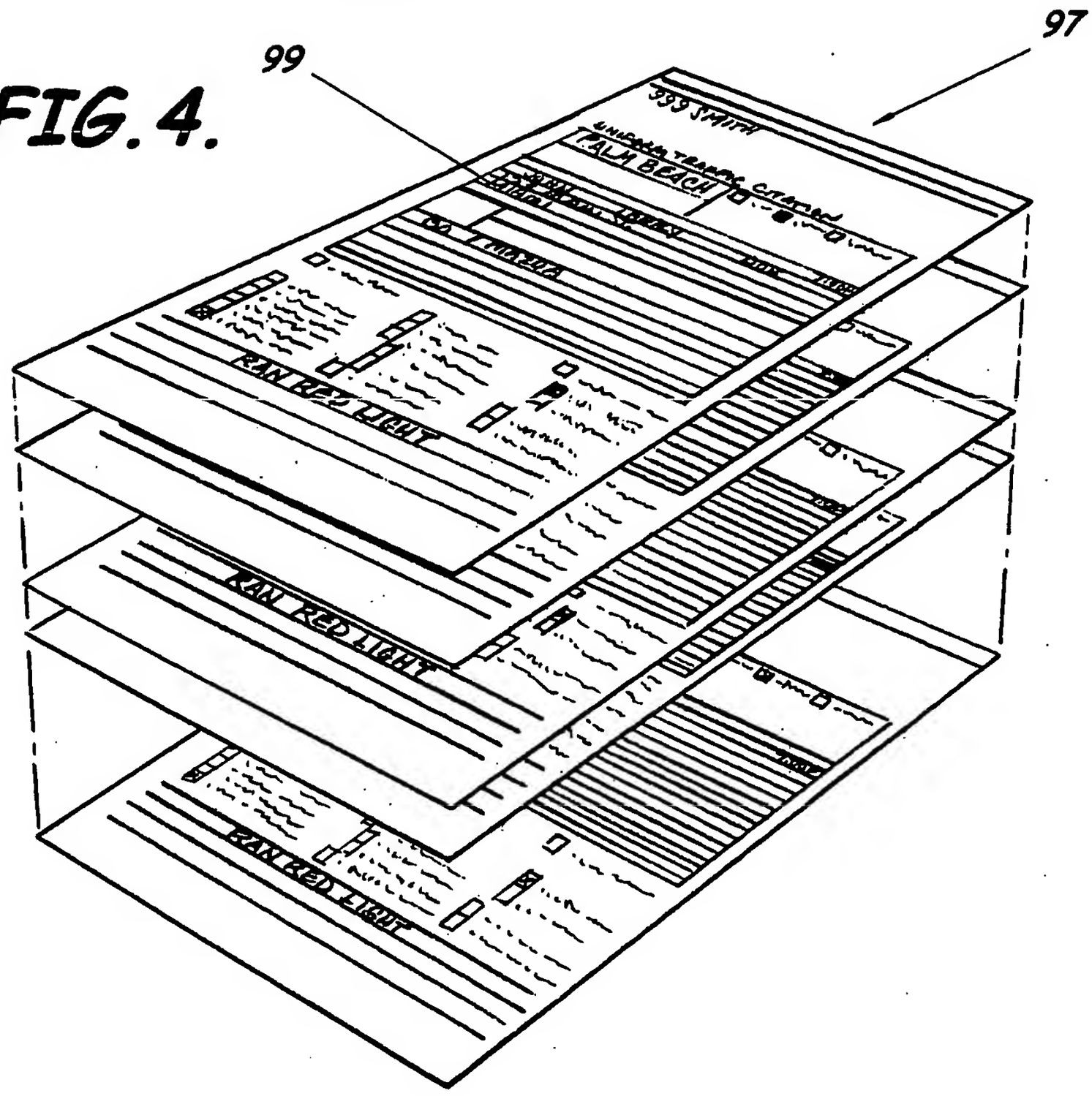


FIG. 5.

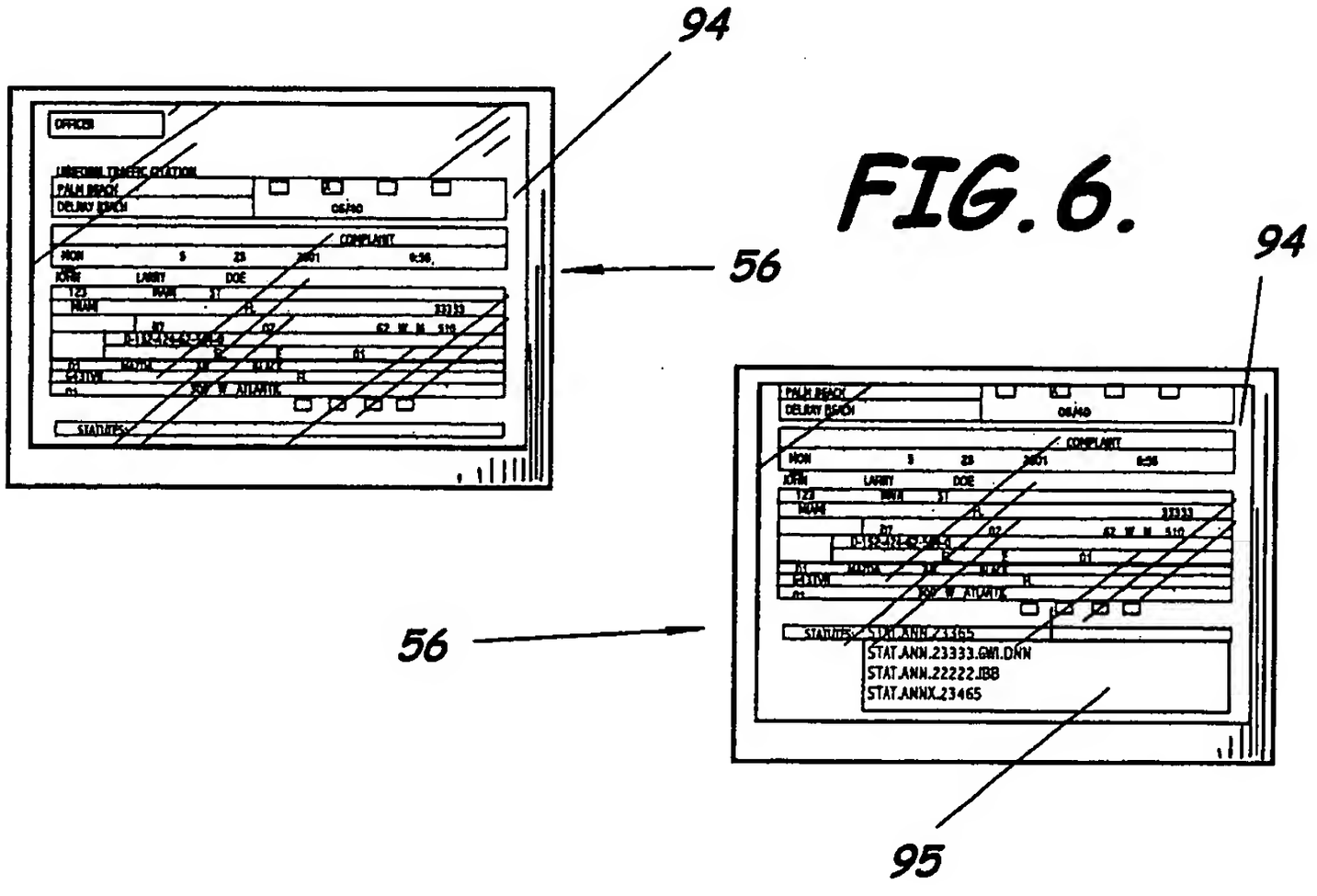


FIG. 6.

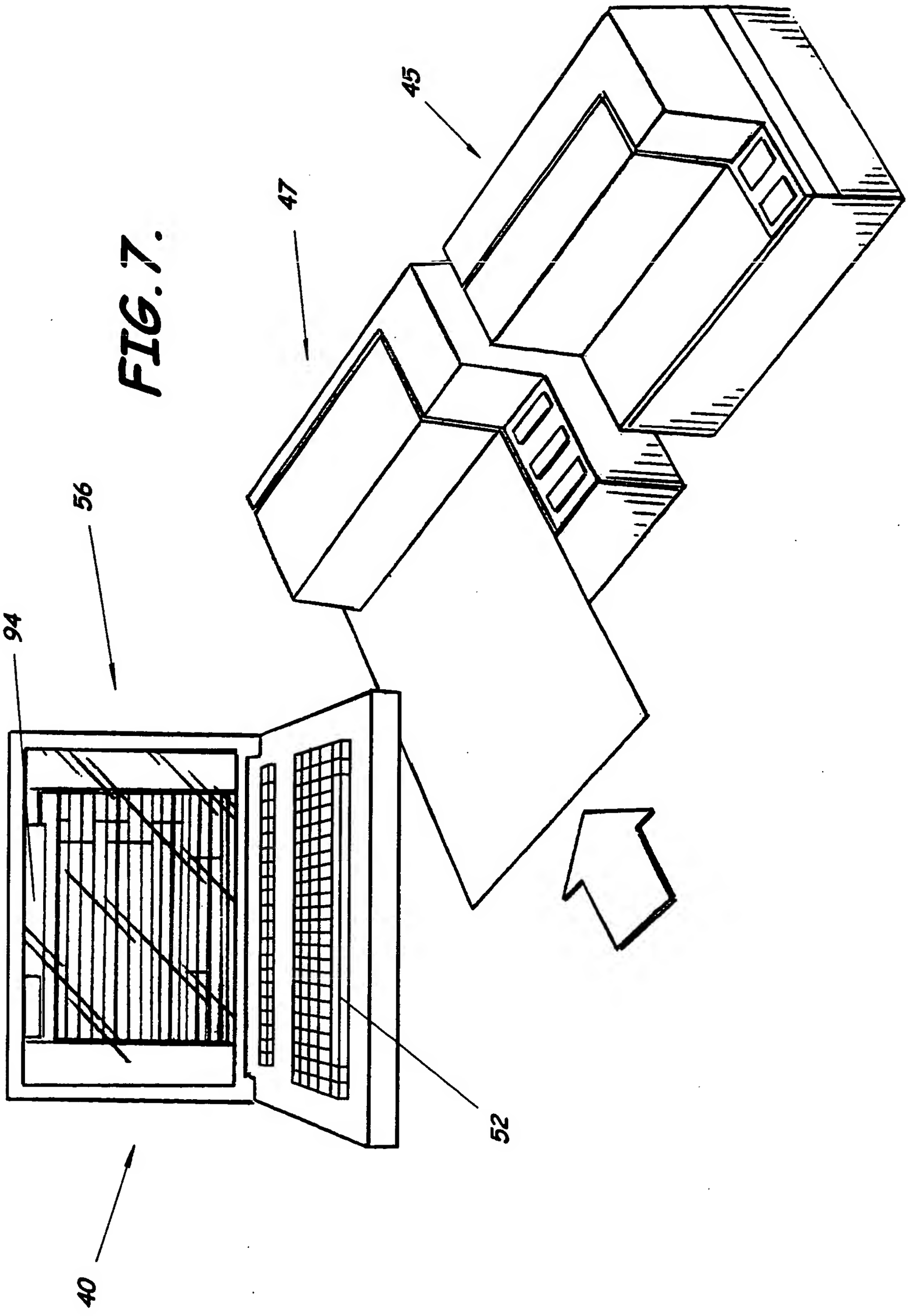


FIG. 7.

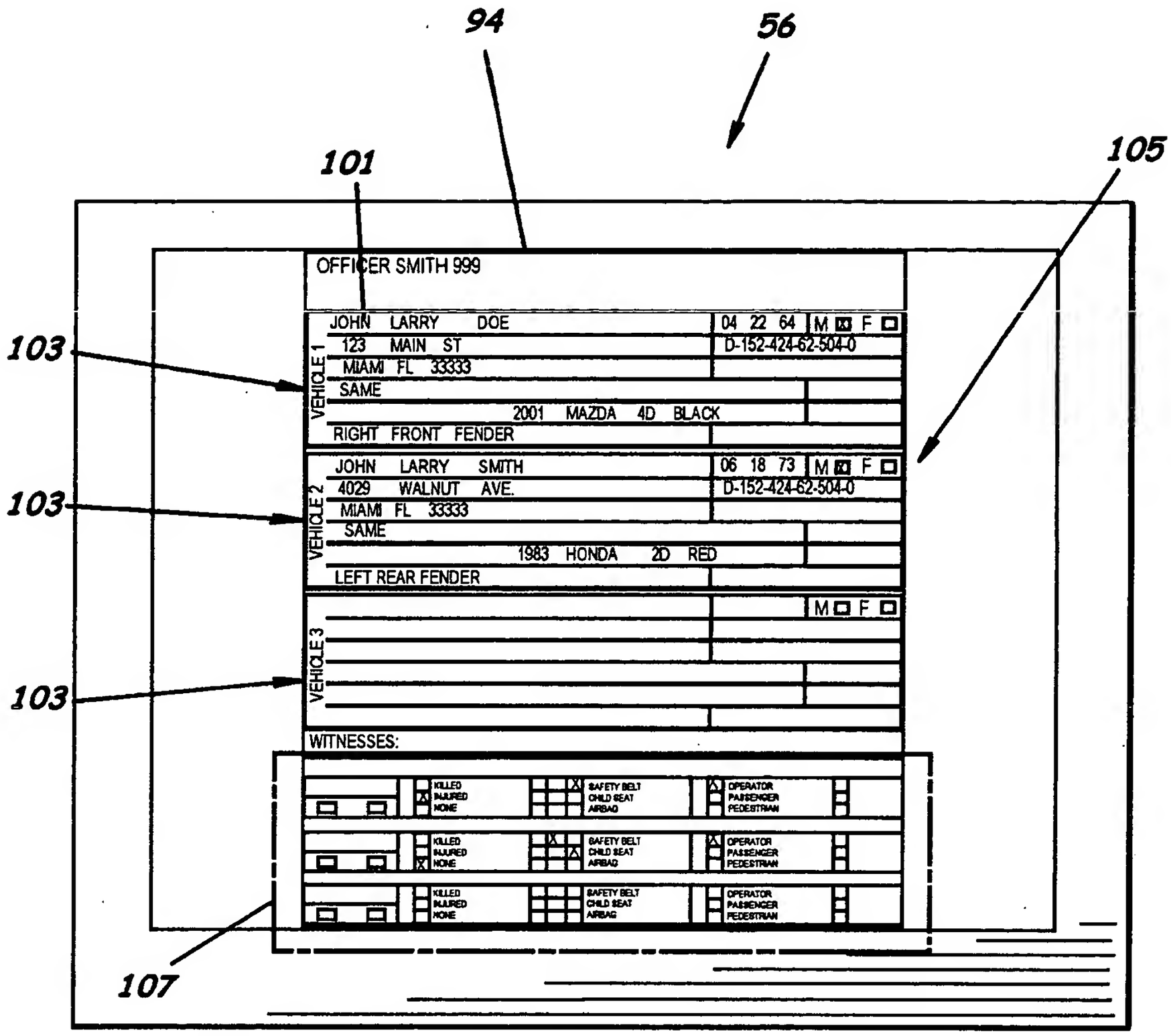

94
56
101
105
103
103
103
107
OFFICER SMITH 999
VEHICLE 1
JOHN LARRY DOE
04 22 64 M F
123 MAIN ST
D-152-424-62-504-0
MIAMI FL 33333
SAME
2001 MAZDA 4D BLACK
RIGHT FRONT FENDER
VEHICLE 2
JOHN LARRY SMITH
06 18 73 M F
4029 WALNUT AVE.
D-152-424-62-504-0
MIAMI FL 33333
SAME
1983 HONDA 2D RED
LEFT REAR FENDER
VEHICLE 3
M F
WITNESSES:
KILLED
INJURED
NONE
SAFETY BELT
CHILD SEAT
AIRBAG
OPERATOR
PASSENGER
PEDESTRIAN

FIG. 7A.

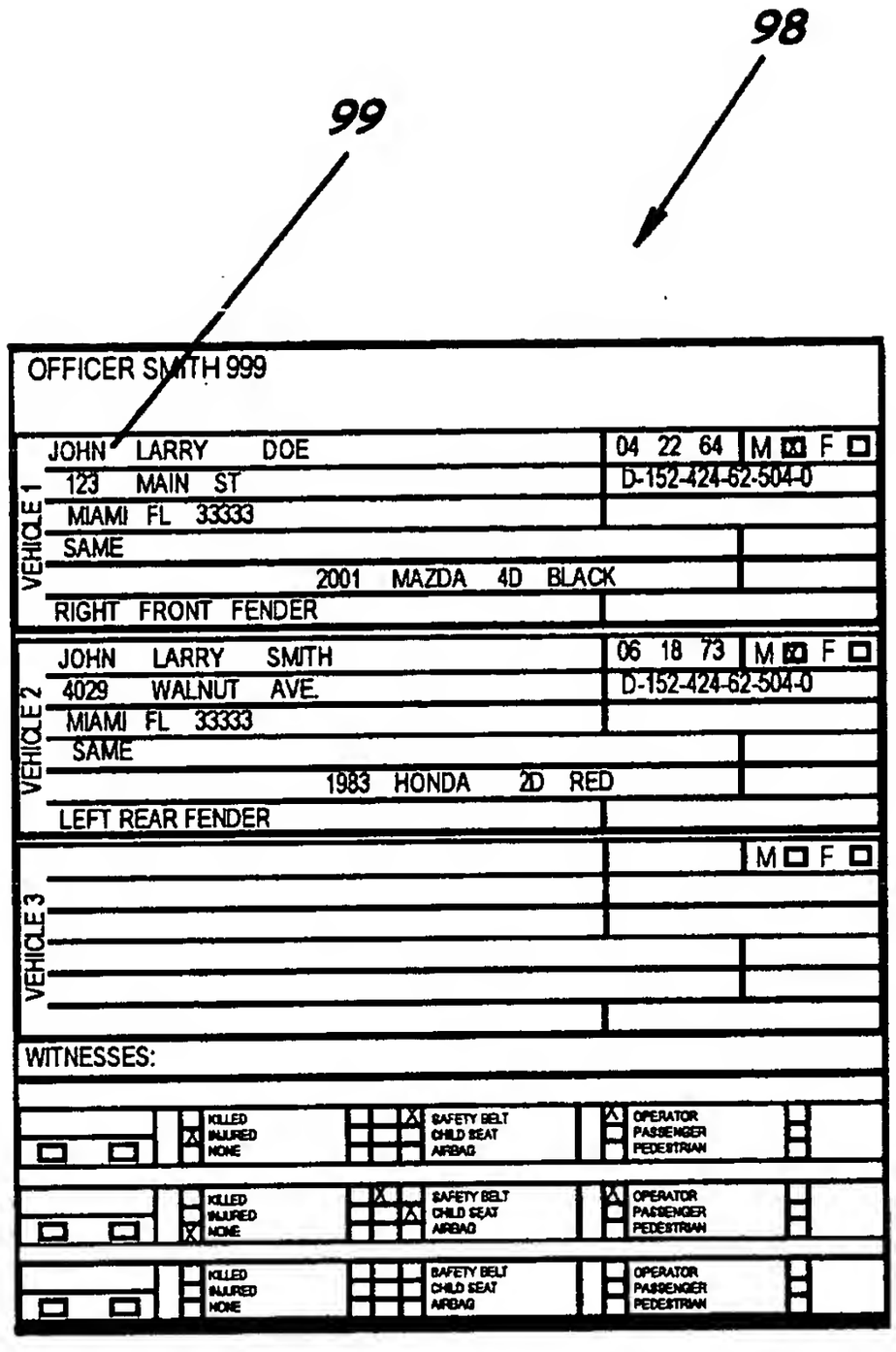

98
99
OFFICER SMITH 999
JOHN LARRY DOE
04 22 64
M X F
123 MAIN ST
D-152-424-62-504-0
MIAMI FL 33333
SAME
2001 MAZDA 4D BLACK
RIGHT FRONT FENDER
VEHICLE 1
JOHN LARRY SMITH
06 18 73
M X F
4029 WALNUT AVE.
D-152-424-62-504-0
MIAMI FL 33333
SAME
1983 HONDA 2D RED
LEFT REAR FENDER
VEHICLE 2
M F
VEHICLE 3
WITNESSES:
KILLED
INJURED
NONE
SAFETY BELT
CHILD SEAT
AIRBAG
OPERATOR
PASSENGER
PEDESTRIAN

FIG. 7B.

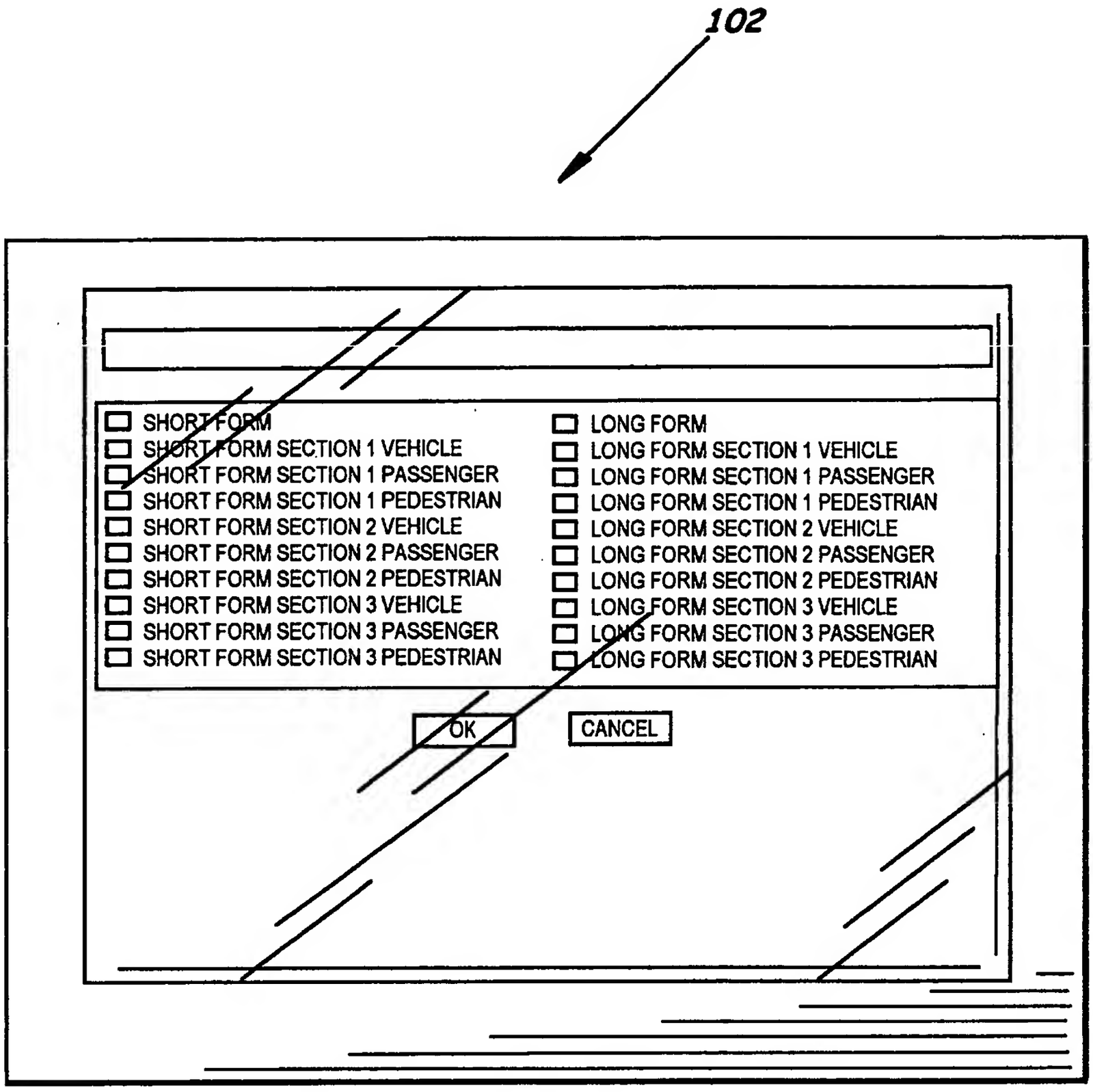
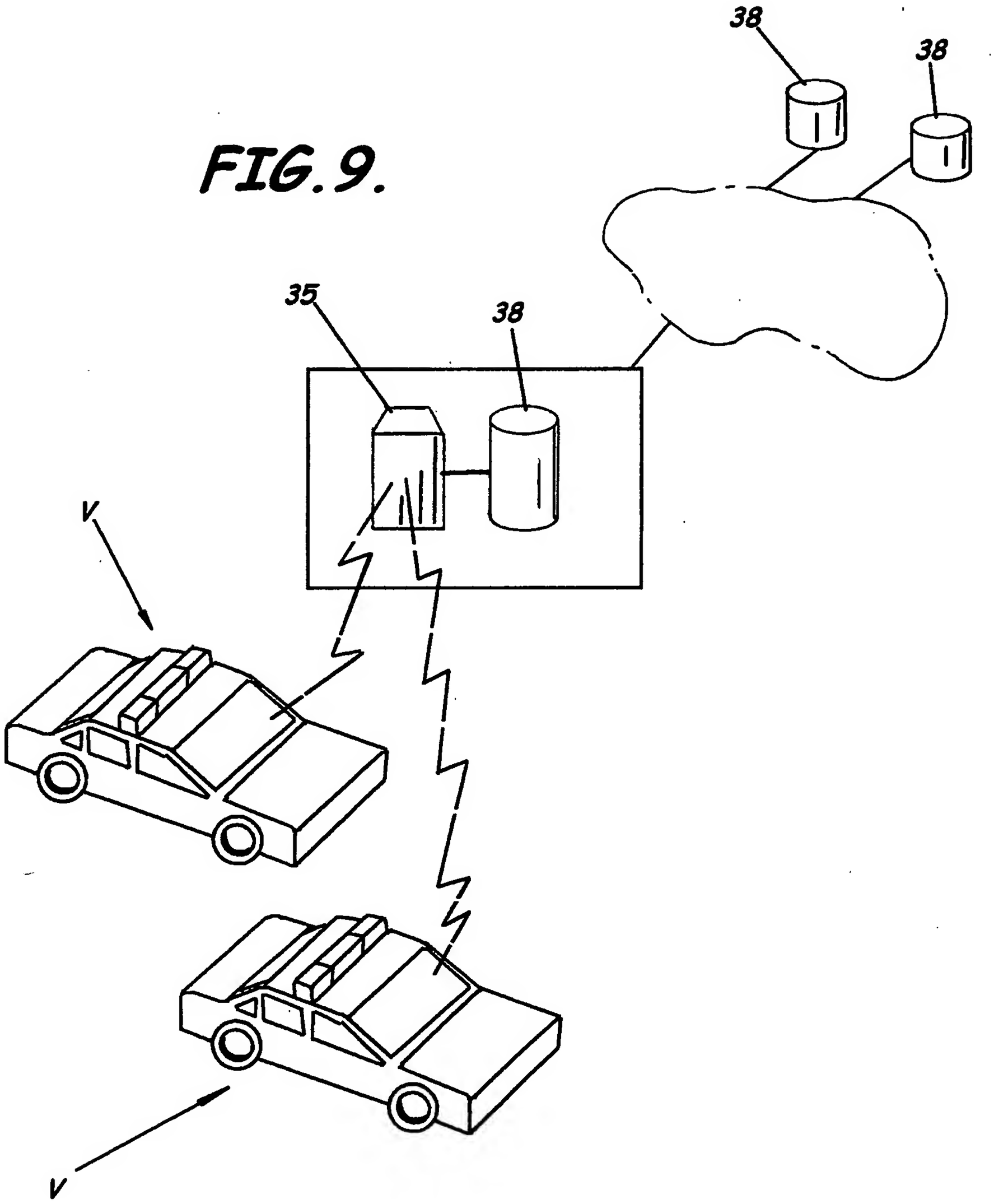

102
SHORT FORM
SHORT FORM SECTION 1 VEHICLE
SHORT FORM SECTION 1 PASSENGER
SHORT FORM SECTION 1 PEDESTRIAN
SHORT FORM SECTION 2 VEHICLE
SHORT FORM SECTION 2 PASSENGER
SHORT FORM SECTION 2 PEDESTRIAN
SHORT FORM SECTION 3 VEHICLE
SHORT FORM SECTION 3 PASSENGER
SHORT FORM SECTION 3 PEDESTRIAN
LONG FORM
LONG FORM SECTION 1 VEHICLE
LONG FORM SECTION 1 PASSENGER
LONG FORM SECTION 1 PEDESTRIAN
LONG FORM SECTION 2 VEHICLE
LONG FORM SECTION 2 PASSENGER
LONG FORM SECTION 2 PEDESTRIAN
LONG FORM SECTION 3 VEHICLE
LONG FORM SECTION 3 PASSENGER
LONG FORM SECTION 3 PEDESTRIAN
OK
CANCEL

FIG. 8.

FIG. 9.



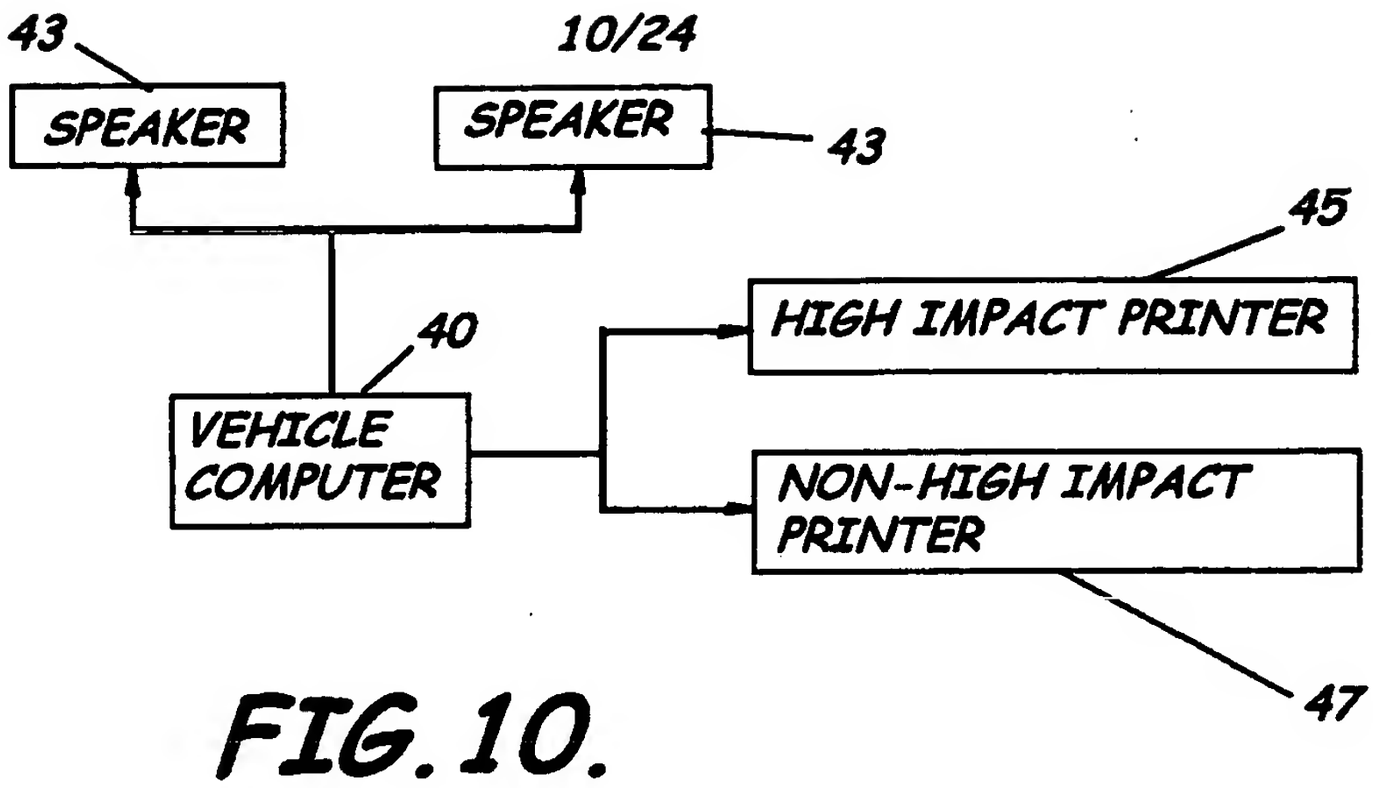


FIG. 10.

FIG. 11.

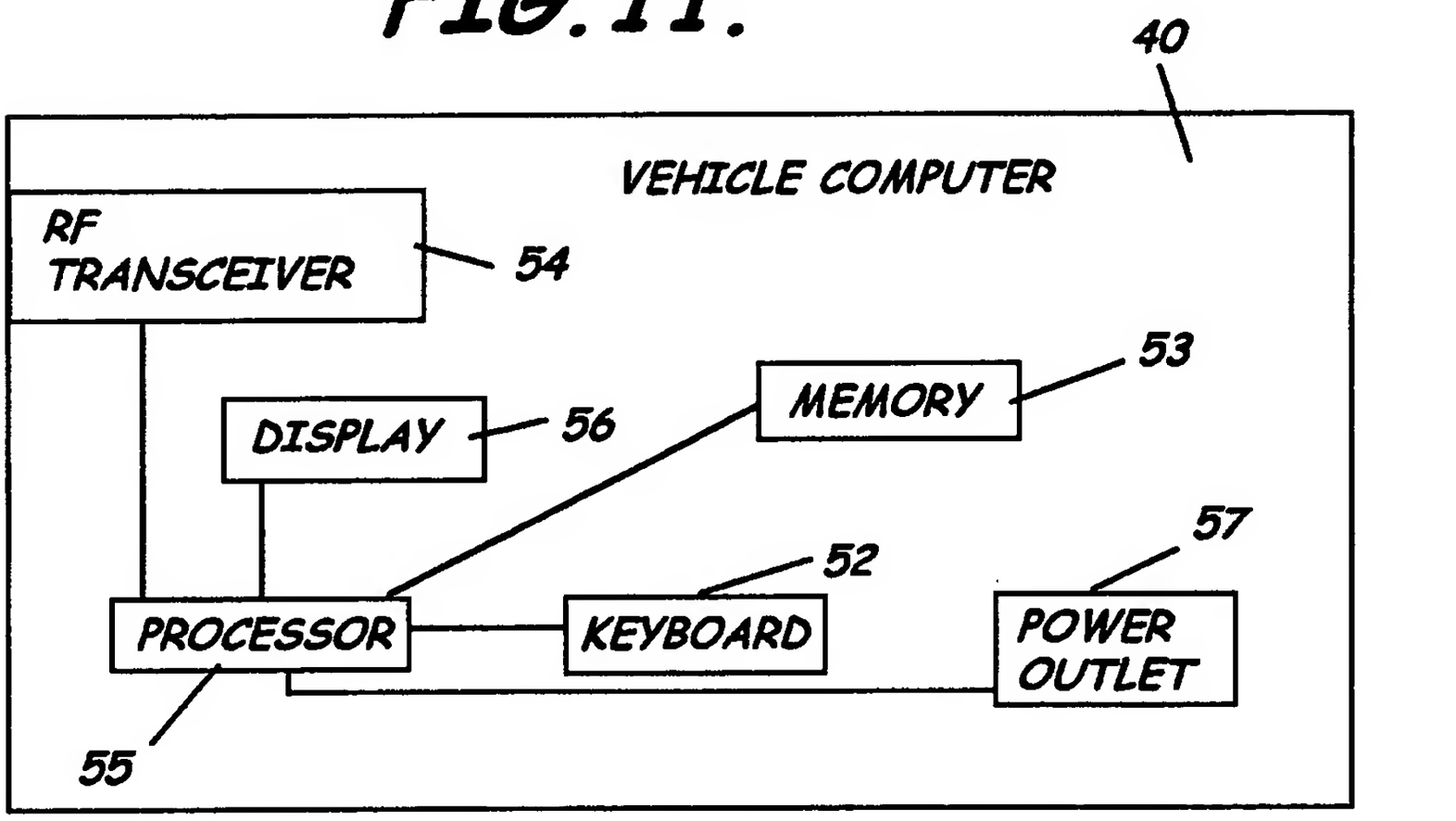
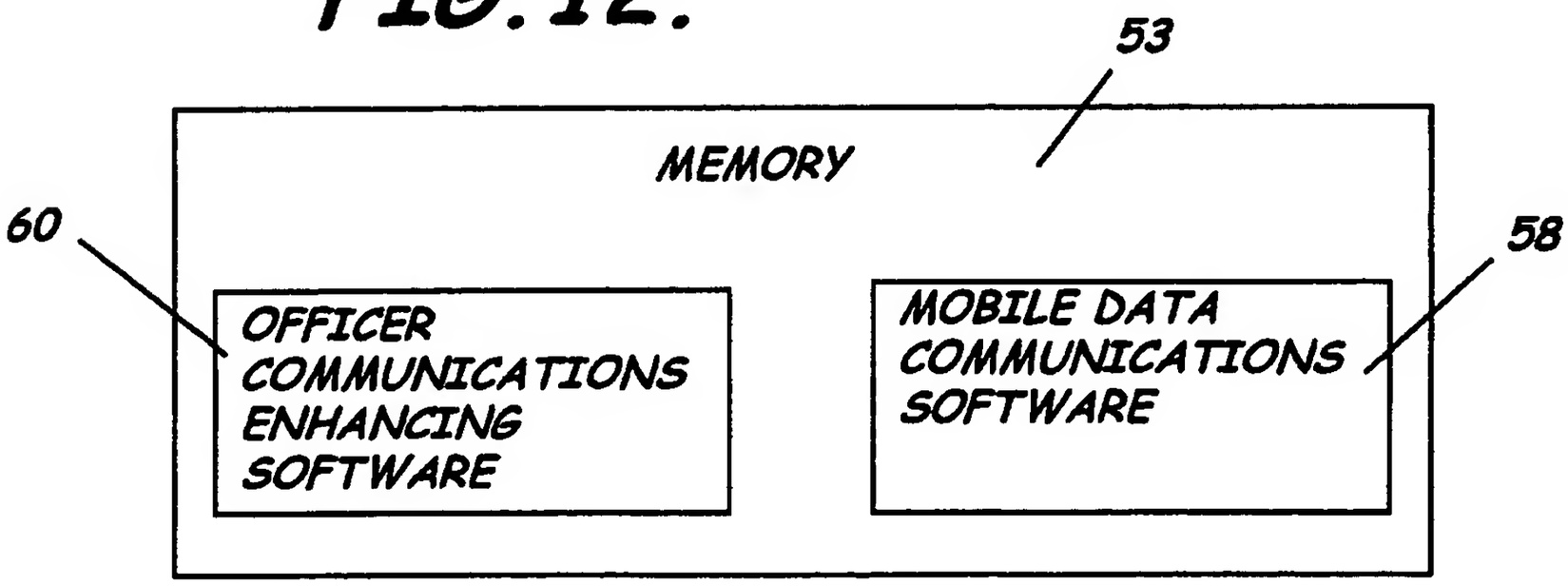


FIG. 12.



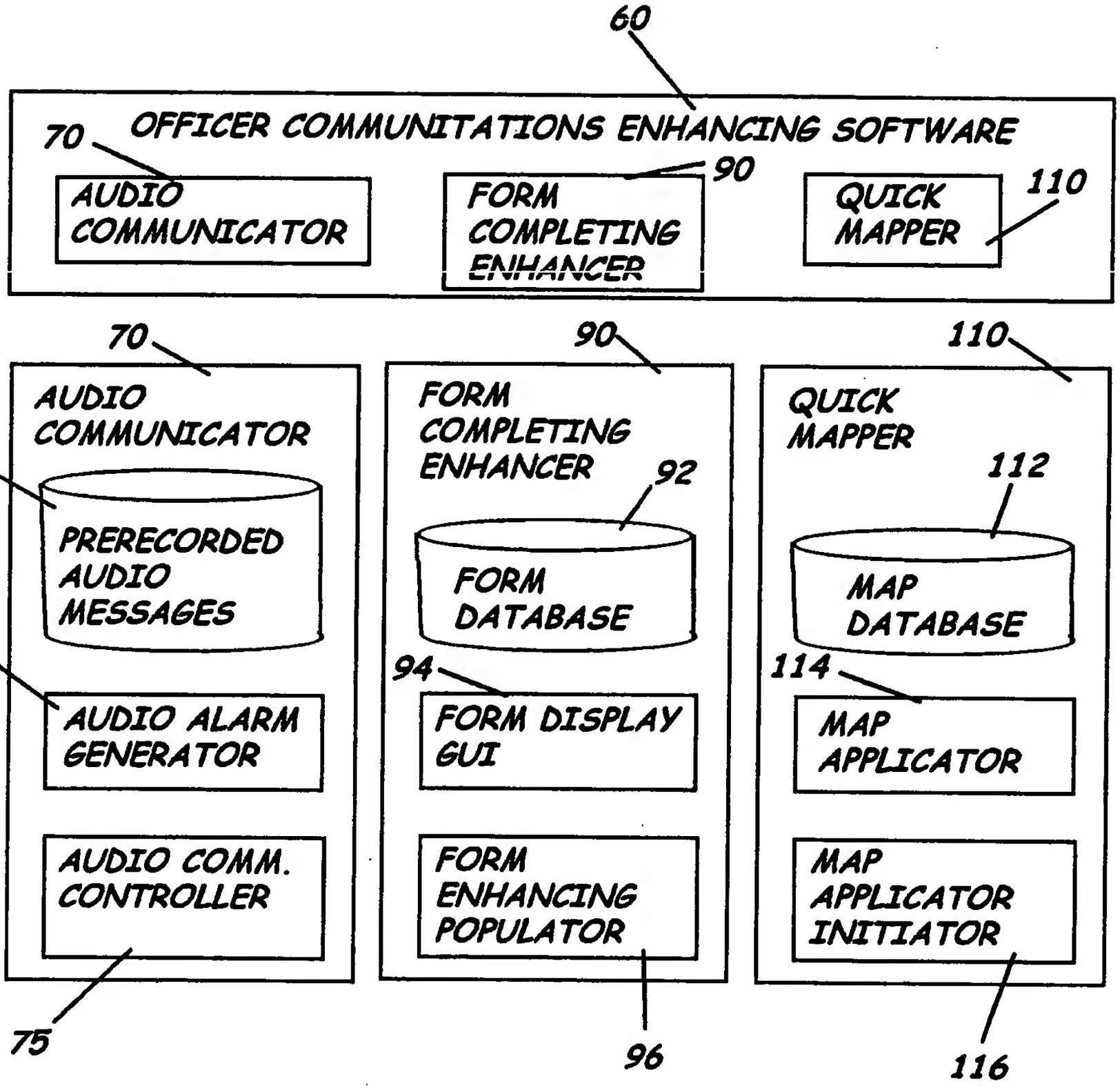

60
OFFICER COMMUNITATIONS ENHANCING SOFTWARE
70
AUDIO COMMUNICATOR
90
FORM COMPLETING ENHANCER
110
QUICK MAPPER
70
AUDIO COMMUNICATOR
72
PRERECORDED AUDIO MESSAGES
74
AUDIO ALARM GENERATOR
AUDIO COMM. CONTROLLER
75
90
FORM COMPLETING ENHANCER
92
FORM DATABASE
94
FORM DISPLAY GUI
FORM ENHANCING POPULATOR
96
110
QUICK MAPPER
112
MAP DATABASE
114
MAP APPLICATOR
MAP APPLICATOR INITIATOR
116

FIG. 13.

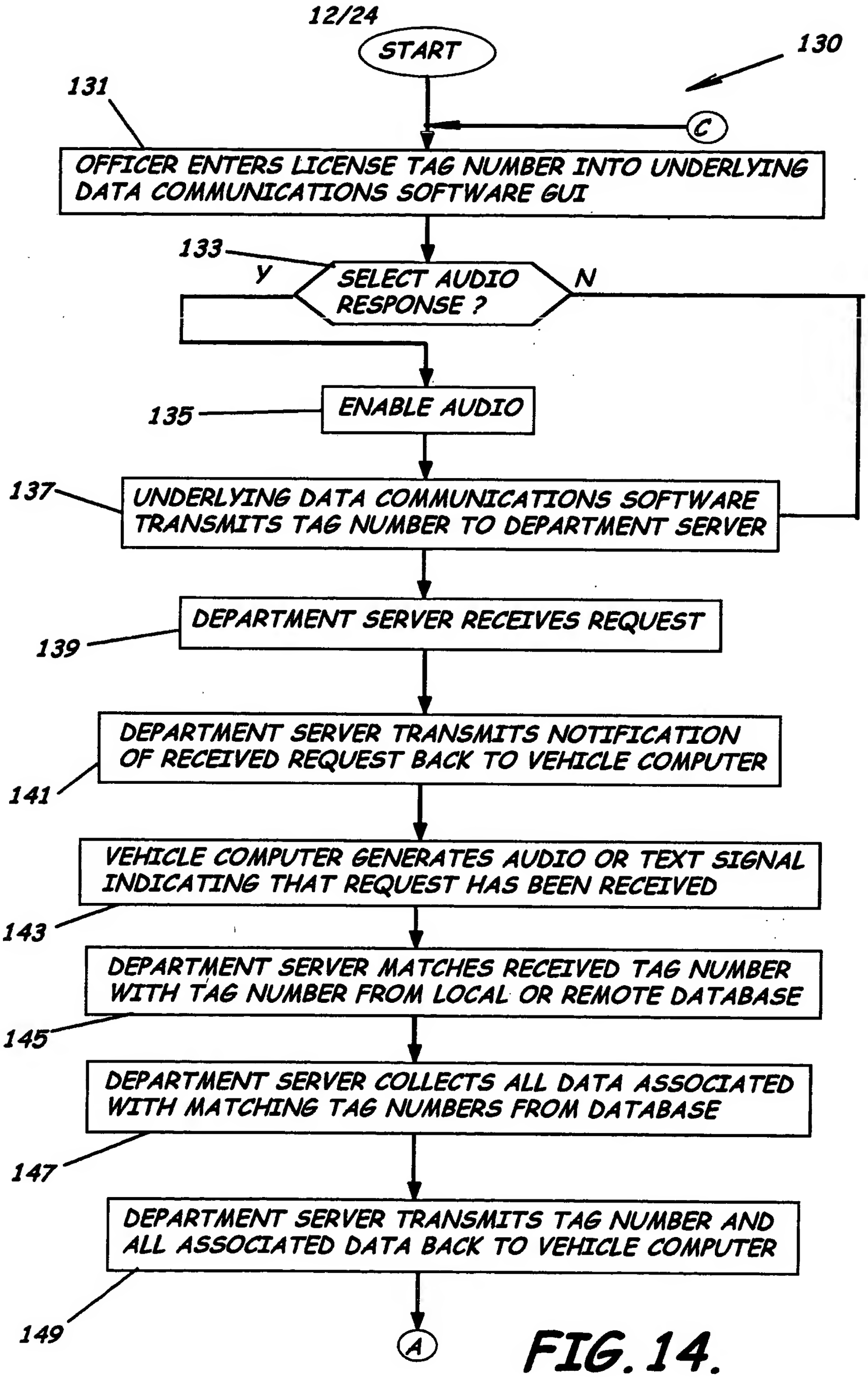

12/24
START
130
131
C
OFFICER ENTERS LICENSE TAG NUMBER INTO UNDERLYING DATA COMMUNICATIONS SOFTWARE GUI
133
Y
SELECT AUDIO RESPONSE ?
N
135
ENABLE AUDIO
137
UNDERLYING DATA COMMUNICATIONS SOFTWARE TRANSMITS TAG NUMBER TO DEPARTMENT SERVER
139
DEPARTMENT SERVER RECEIVES REQUEST
141
DEPARTMENT SERVER TRANSMITS NOTIFICATION OF RECEIVED REQUEST BACK TO VEHICLE COMPUTER
143
VEHICLE COMPUTER GENERATES AUDIO OR TEXT SIGNAL INDICATING THAT REQUEST HAS BEEN RECEIVED
145
DEPARTMENT SERVER MATCHES RECEIVED TAG NUMBER WITH TAG NUMBER FROM LOCAL OR REMOTE DATABASE
147
DEPARTMENT SERVER COLLECTS ALL DATA ASSOCIATED WITH MATCHING TAG NUMBERS FROM DATABASE
149
DEPARTMENT SERVER TRANSMITS TAG NUMBER AND ALL ASSOCIATED DATA BACK TO VEHICLE COMPUTER
A

FIG. 14.

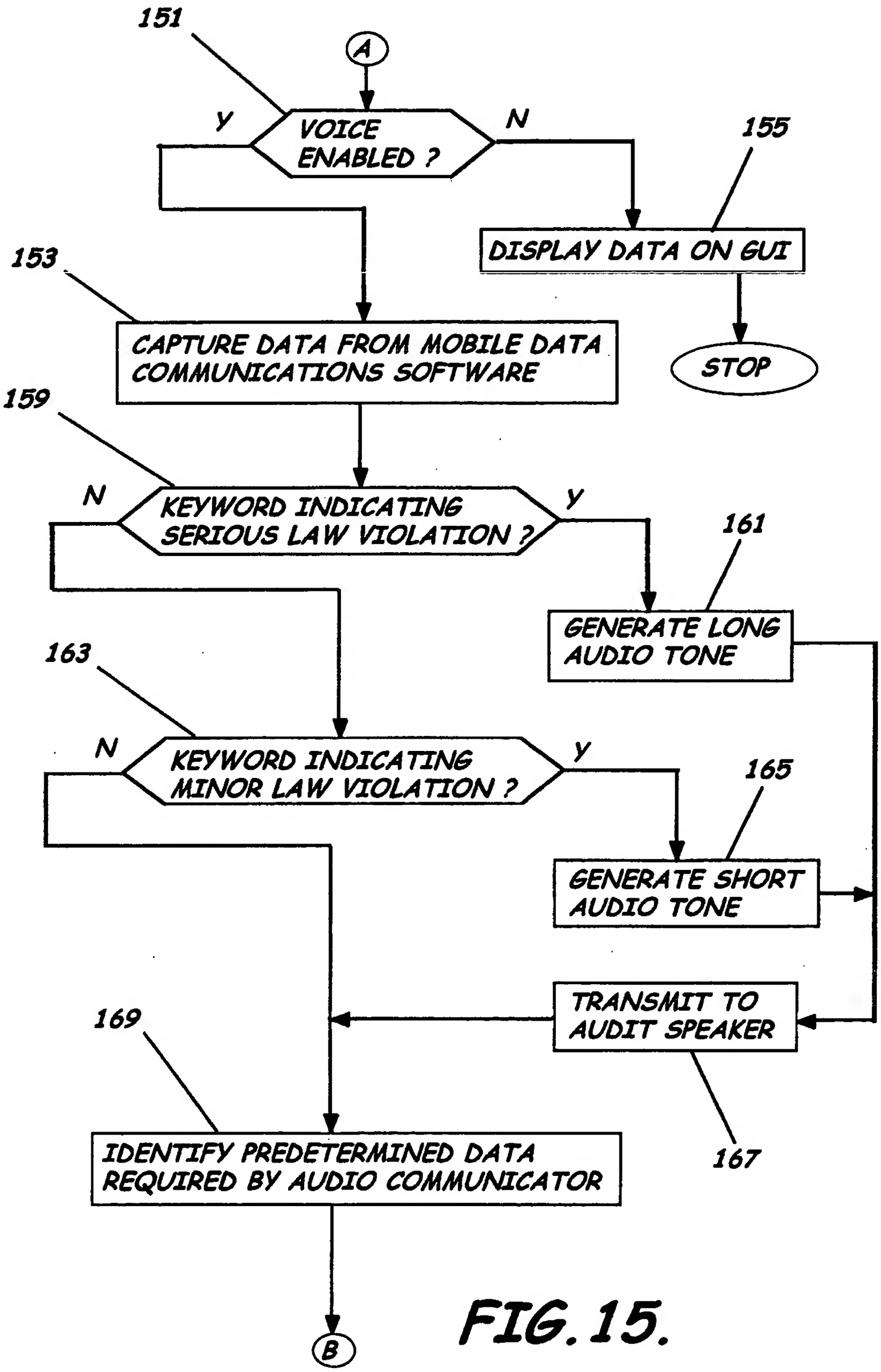

151
A
VOICE ENABLED ?
Y
N
155
DISPLAY DATA ON GUI
STOP
153
CAPTURE DATA FROM MOBILE DATA COMMUNICATIONS SOFTWARE
159
KEYWORD INDICATING SERIOUS LAW VIOLATION ?
N
Y
161
GENERATE LONG AUDIO TONE
163
KEYWORD INDICATING MINOR LAW VIOLATION ?
N
Y
165
GENERATE SHORT AUDIO TONE
TRANSMIT TO AUDIT SPEAKER
167
169
IDENTIFY PREDETERMINED DATA REQUIRED BY AUDIO COMMUNICATOR
B

FIG. 15.

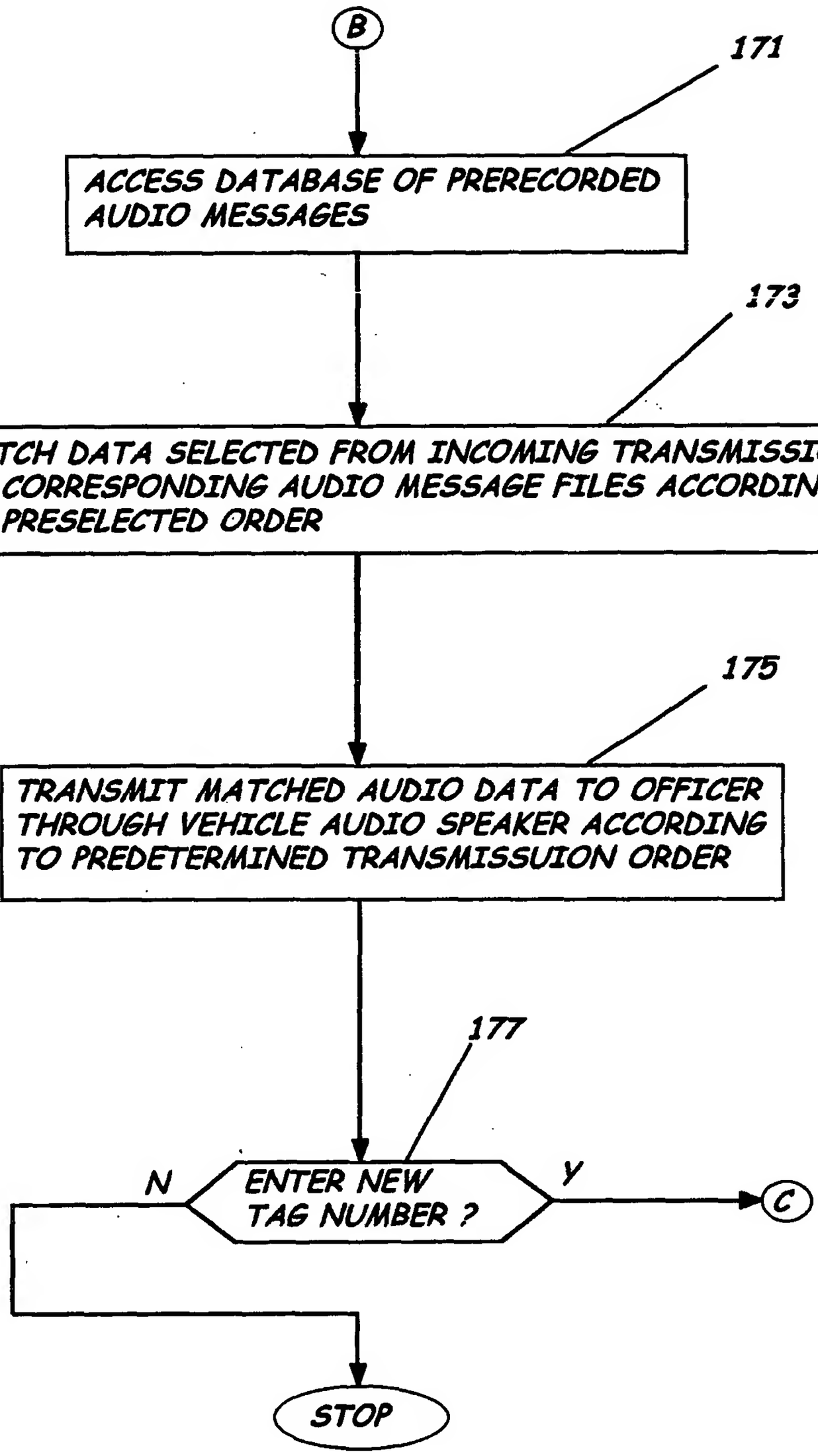
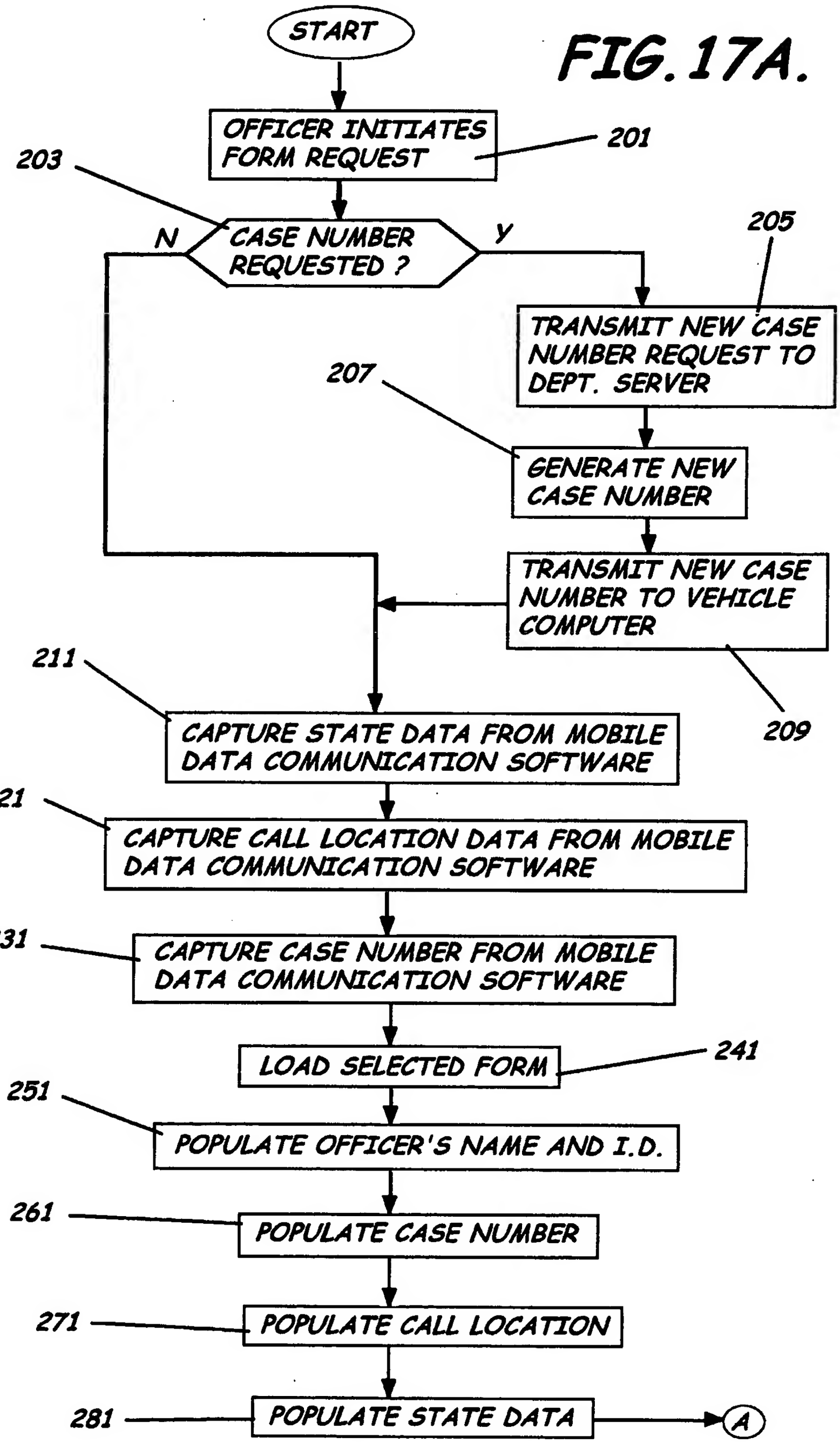

B
171
ACCESS DATABASE OF PRERECORDED AUDIO MESSAGES
173
MATCH DATA SELECTED FROM INCOMING TRANSMISSION TO CORRESPONDING AUDIO MESSAGE FILES ACCORDING TO PRESELECTED ORDER
175
TRANSMIT MATCHED AUDIO DATA TO OFFICER THROUGH VEHICLE AUDIO SPEAKER ACCORDING TO PREDETERMINED TRANSMISSUION ORDER
177
N
ENTER NEW TAG NUMBER ?
Y
C
STOP

FIG. 16.

FIG. 17A.


START
OFFICER INITIATES FORM REQUEST
201
203
CASE NUMBER REQUESTED ?
N
Y
205
TRANSMIT NEW CASE NUMBER REQUEST TO DEPT. SERVER
207
GENERATE NEW CASE NUMBER
TRANSMIT NEW CASE NUMBER TO VEHICLE COMPUTER
209
211
CAPTURE STATE DATA FROM MOBILE DATA COMMUNICATION SOFTWARE
221
CAPTURE CALL LOCATION DATA FROM MOBILE DATA COMMUNICATION SOFTWARE
231
CAPTURE CASE NUMBER FROM MOBILE DATA COMMUNICATION SOFTWARE
LOAD SELECTED FORM
241
251
POPULATE OFFICER'S NAME AND I.D.
261
POPULATE CASE NUMBER
271
POPULATE CALL LOCATION
281
POPULATE STATE DATA
A

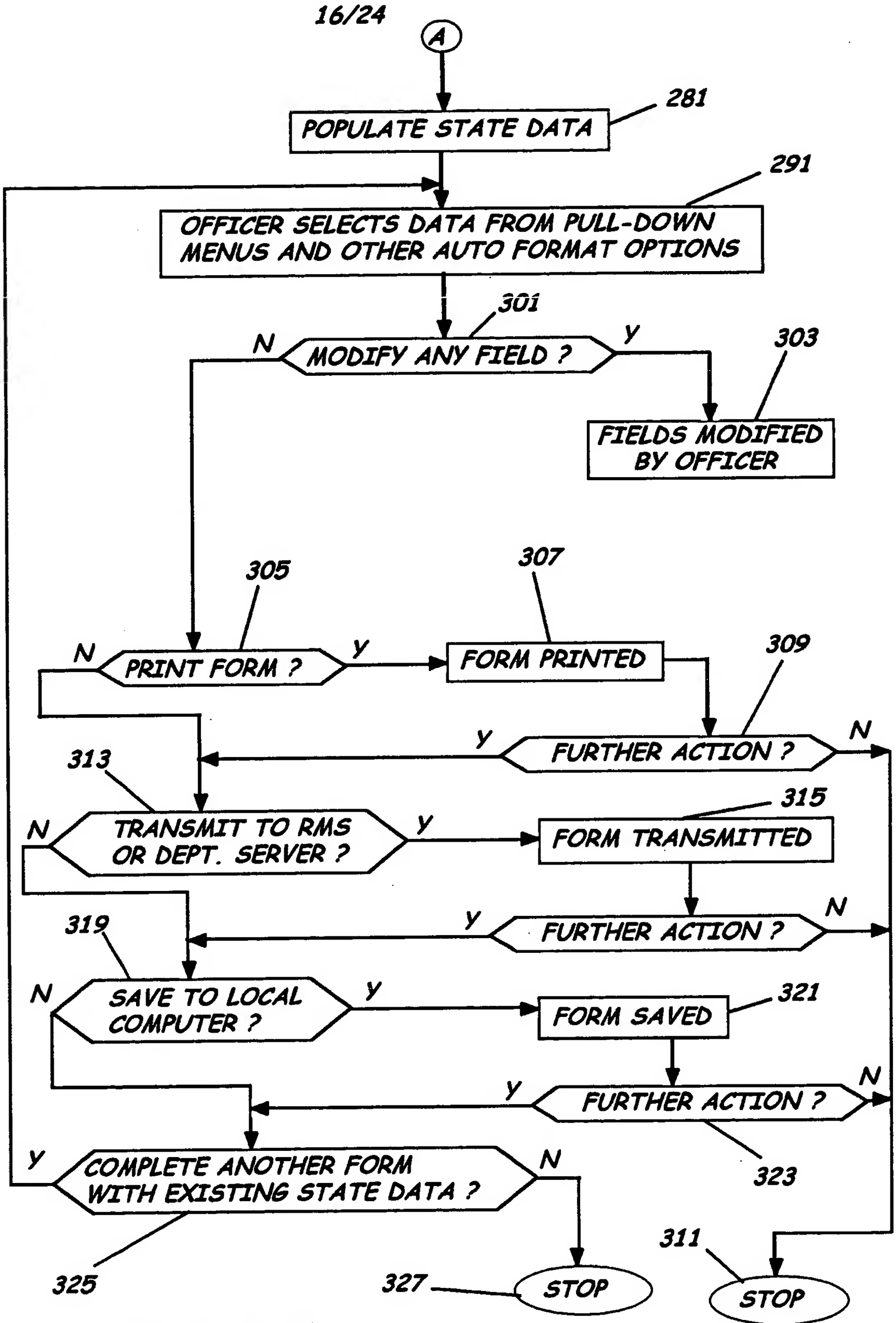

A
281
POPULATE STATE DATA
291
OFFICER SELECTS DATA FROM PULL-DOWN MENUS AND OTHER AUTO FORMAT OPTIONS
301
N
MODIFY ANY FIELD ?
Y
303
FIELDS MODIFIED BY OFFICER
305
307
N
PRINT FORM ?
Y
FORM PRINTED
309
Y
FURTHER ACTION ?
N
313
315
N
TRANSMIT TO RMS OR DEPT. SERVER ?
Y
FORM TRANSMITTED
319
Y
FURTHER ACTION ?
N
N
SAVE TO LOCAL COMPUTER ?
Y
321
FORM SAVED
Y
FURTHER ACTION ?
N
323
Y
COMPLETE ANOTHER FORM WITH EXISTING STATE DATA ?
N
325
327
STOP
311
STOP

FIG. 17B.

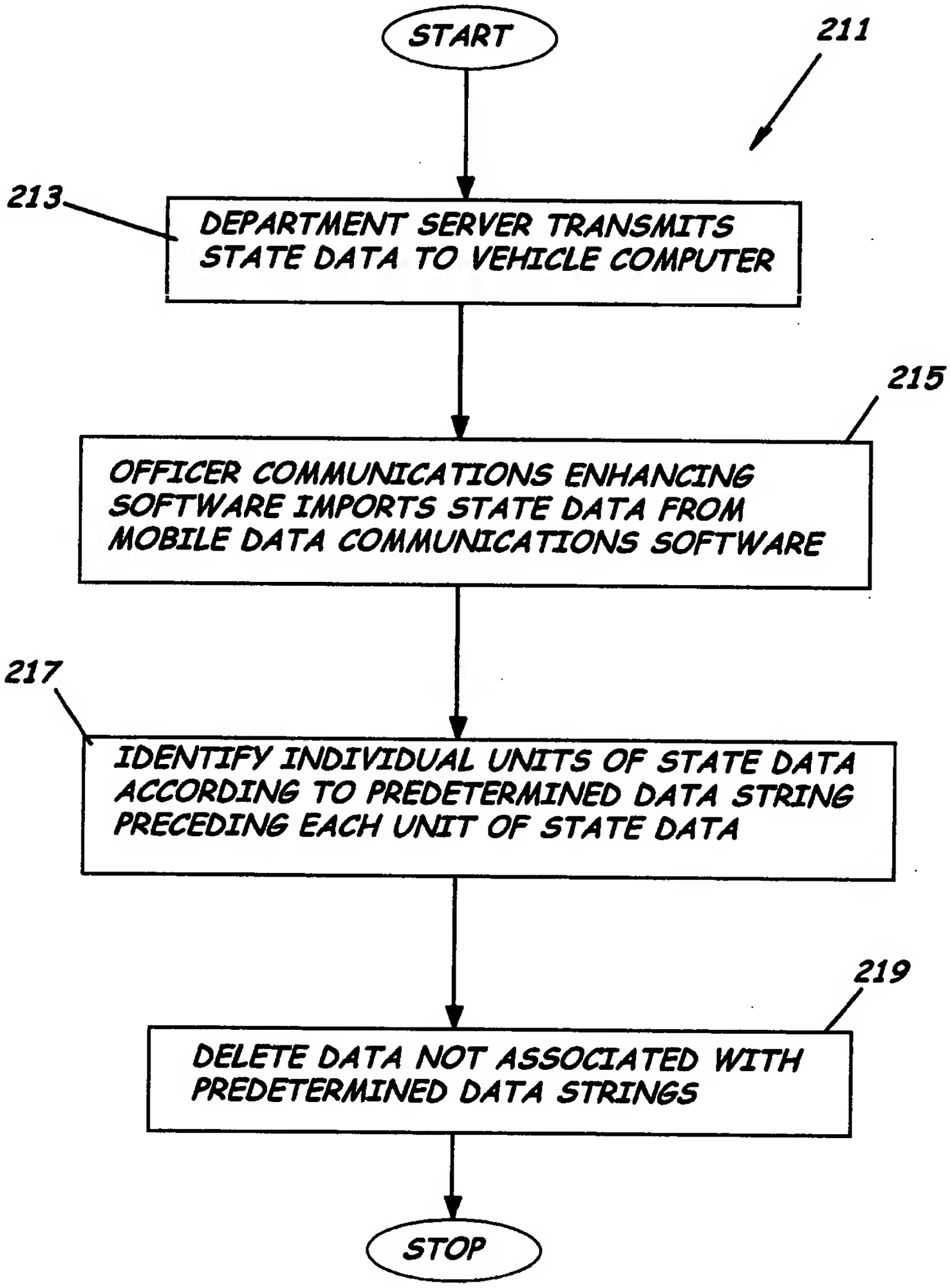

START
211
213
DEPARTMENT SERVER TRANSMITS STATE DATA TO VEHICLE COMPUTER
215
OFFICER COMMUNICATIONS ENHANCING SOFTWARE IMPORTS STATE DATA FROM MOBILE DATA COMMUNICATIONS SOFTWARE
217
IDENTIFY INDIVIDUAL UNITS OF STATE DATA ACCORDING TO PREDETERMINED DATA STRING PRECEDING EACH UNIT OF STATE DATA
219
DELETE DATA NOT ASSOCIATED WITH PREDETERMINED DATA STRINGS
STOP

FIG. 18.

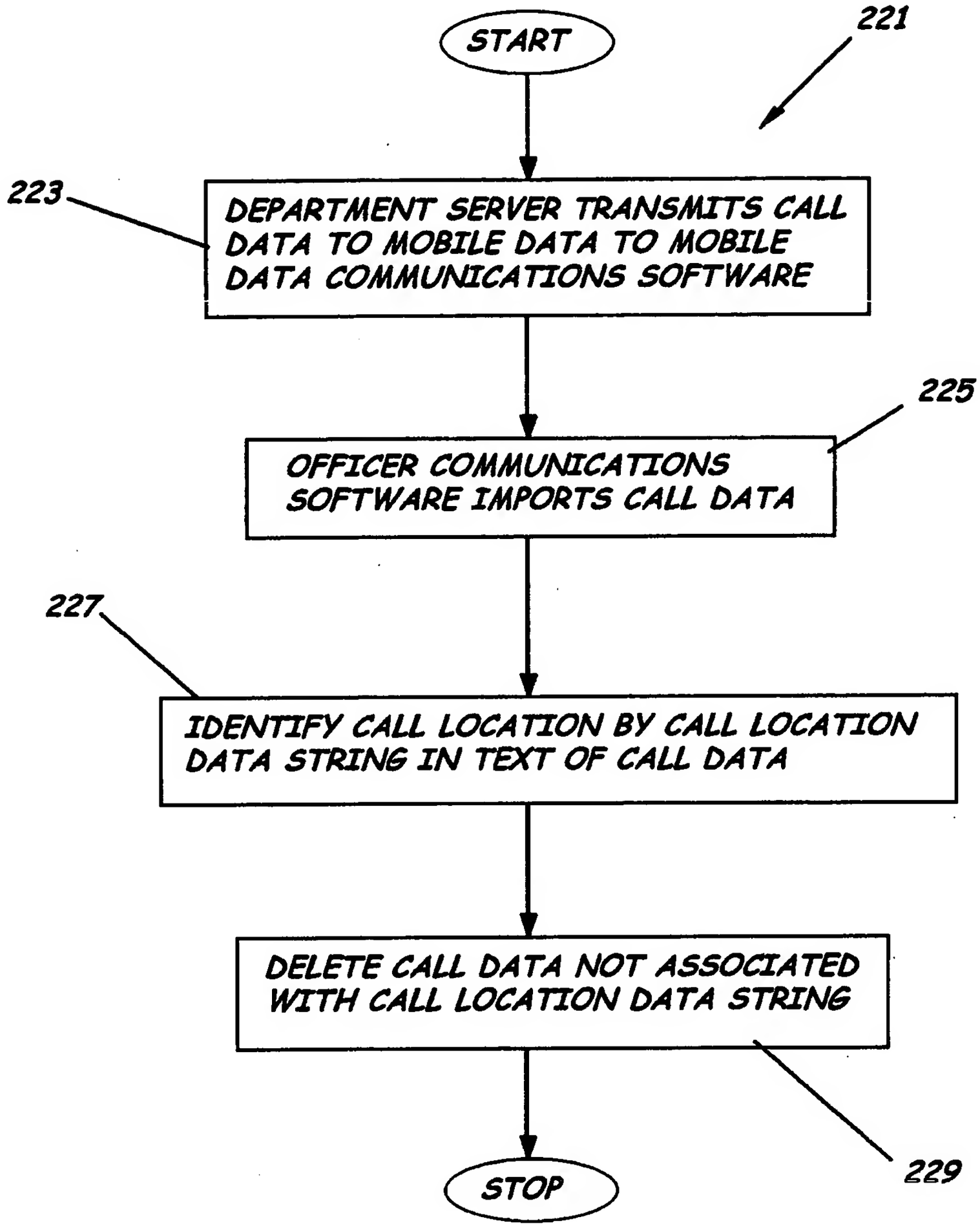

START
221
223
DEPARTMENT SERVER TRANSMITS CALL DATA TO MOBILE DATA TO MOBILE DATA COMMUNICATIONS SOFTWARE
225
OFFICER COMMUNICATIONS SOFTWARE IMPORTS CALL DATA
227
IDENTIFY CALL LOCATION BY CALL LOCATION DATA STRING IN TEXT OF CALL DATA
DELETE CALL DATA NOT ASSOCIATED WITH CALL LOCATION DATA STRING
229
STOP

FIG. 19.

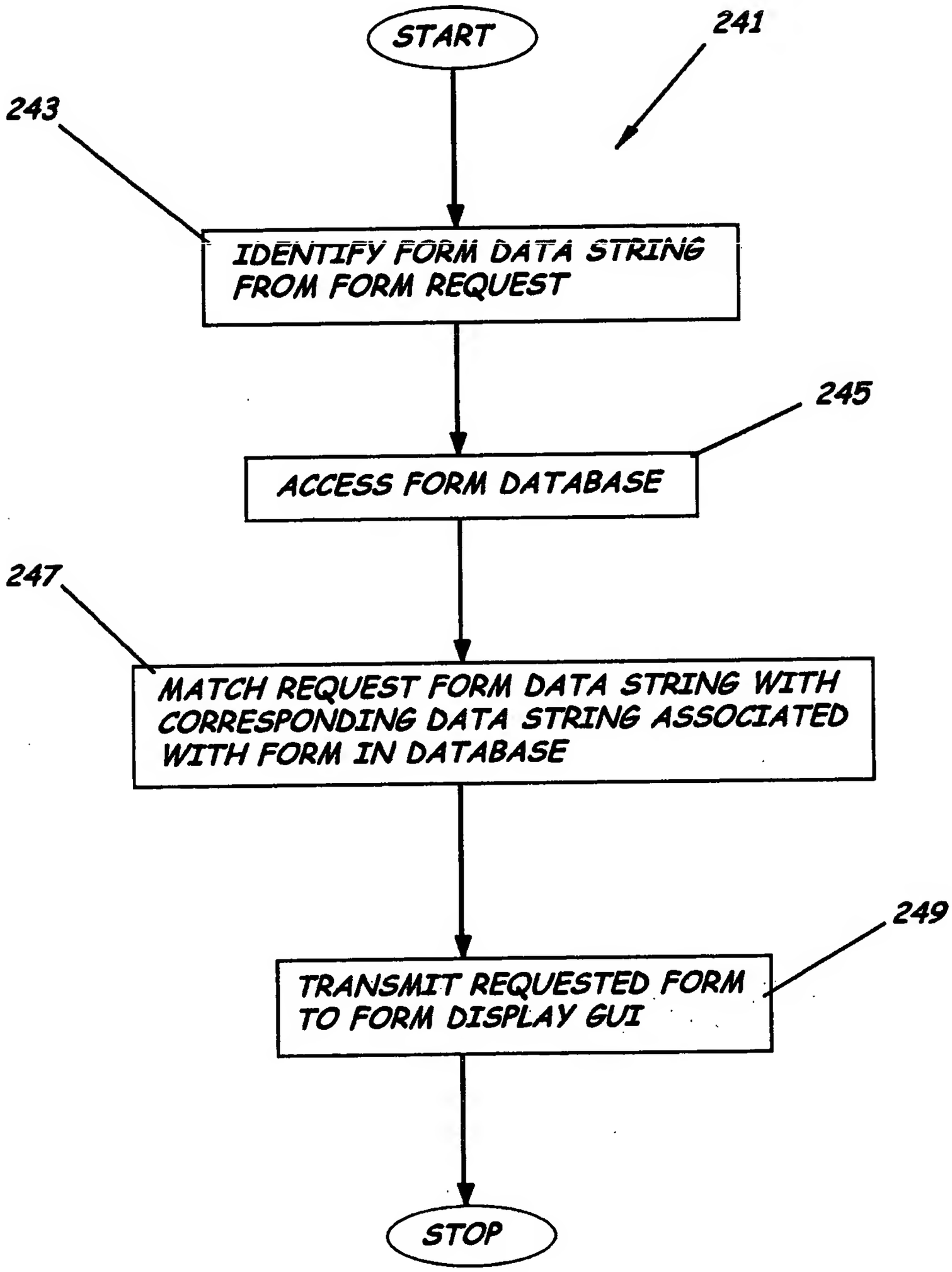

START
241
243
IDENTIFY FORM DATA STRING FROM FORM REQUEST
245
ACCESS FORM DATABASE
247
MATCH REQUEST FORM DATA STRING WITH CORRESPONDING DATA STRING ASSOCIATED WITH FORM IN DATABASE
249
TRANSMIT REQUESTED FORM TO FORM DISPLAY GUI
STOP

FIG. 20.

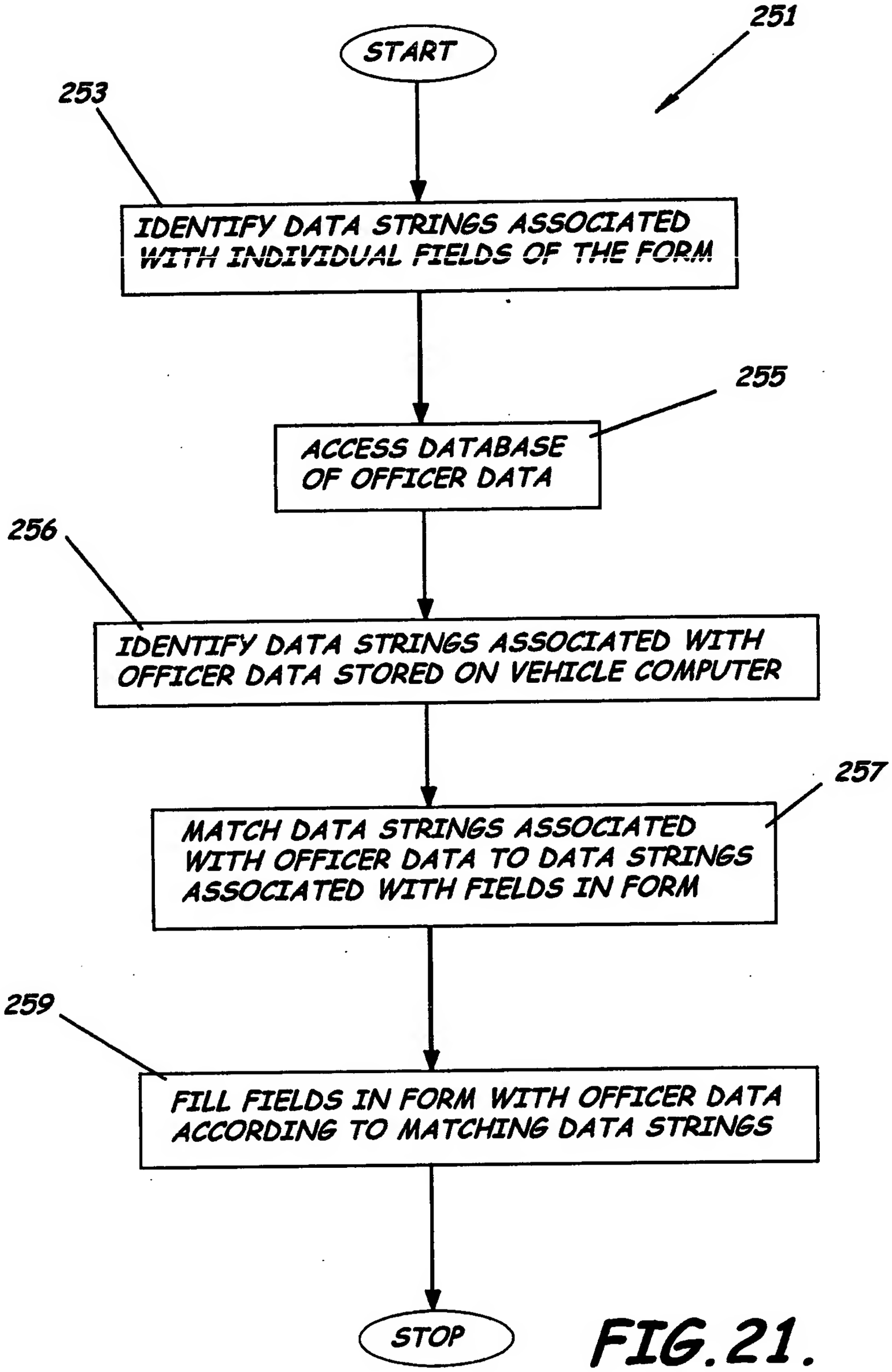

251
START
253
IDENTIFY DATA STRINGS ASSOCIATED WITH INDIVIDUAL FIELDS OF THE FORM
255
ACCESS DATABASE OF OFFICER DATA
256
IDENTIFY DATA STRINGS ASSOCIATED WITH OFFICER DATA STORED ON VEHICLE COMPUTER
257
MATCH DATA STRINGS ASSOCIATED WITH OFFICER DATA TO DATA STRINGS ASSOCIATED WITH FIELDS IN FORM
259
FILL FIELDS IN FORM WITH OFFICER DATA ACCORDING TO MATCHING DATA STRINGS
STOP

FIG. 21.

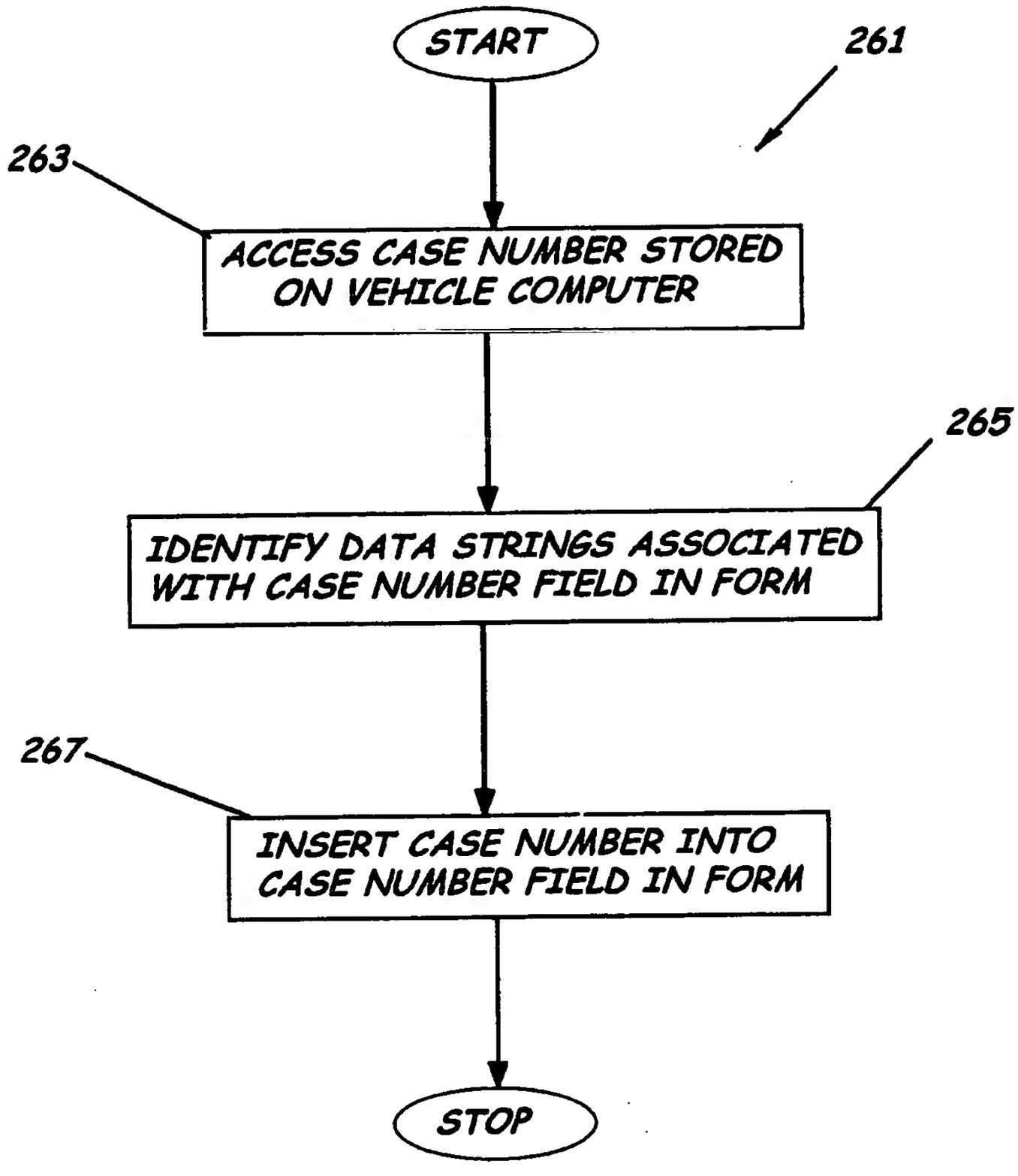

START
261
263
ACCESS CASE NUMBER STORED ON VEHICLE COMPUTER
265
IDENTIFY DATA STRINGS ASSOCIATED WITH CASE NUMBER FIELD IN FORM
267
INSERT CASE NUMBER INTO CASE NUMBER FIELD IN FORM
STOP

FIG. 22.

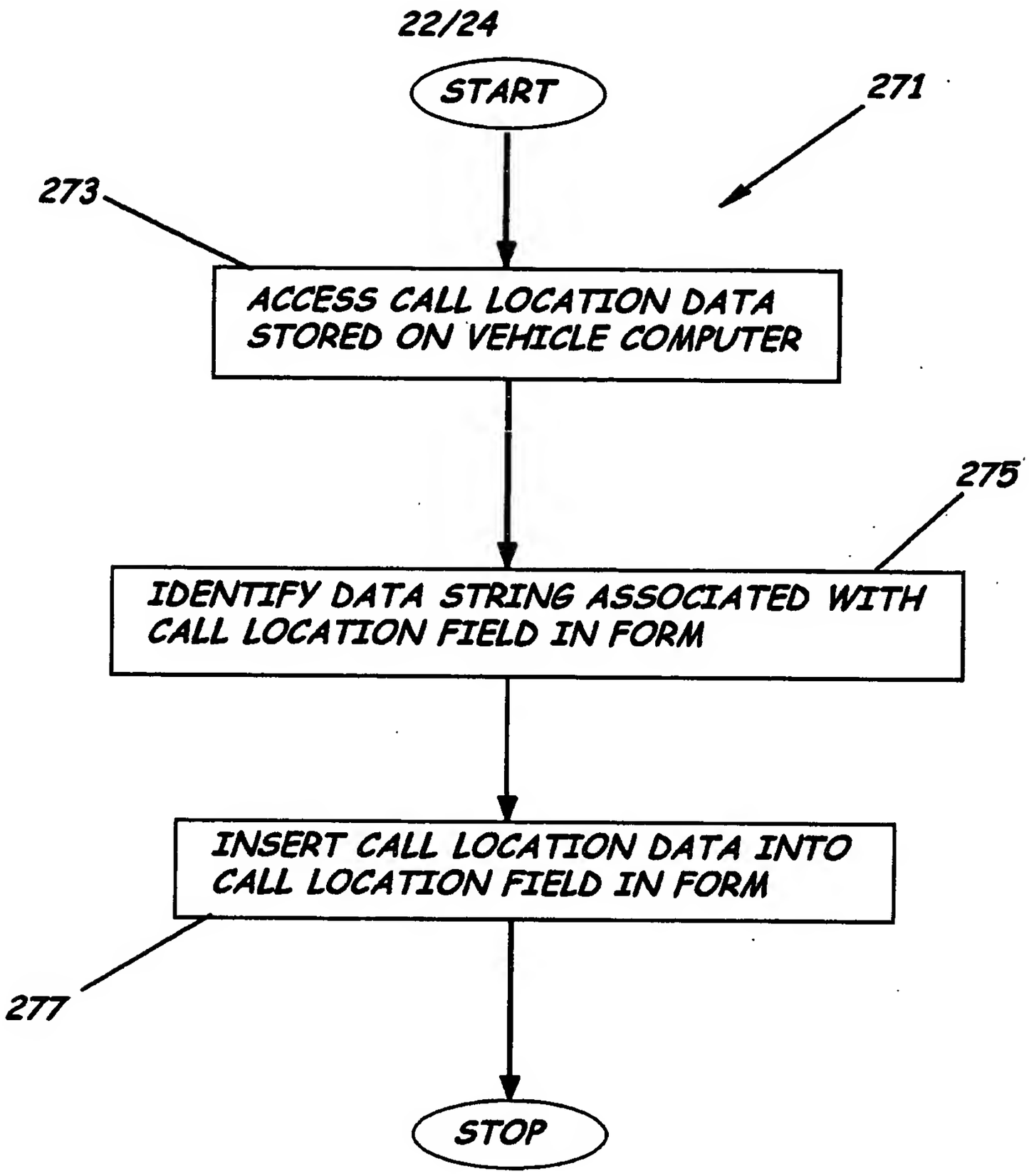

22/24
START
271
273
ACCESS CALL LOCATION DATA STORED ON VEHICLE COMPUTER
275
IDENTIFY DATA STRING ASSOCIATED WITH CALL LOCATION FIELD IN FORM
INSERT CALL LOCATION DATA INTO CALL LOCATION FIELD IN FORM
277
STOP

FIG. 23.

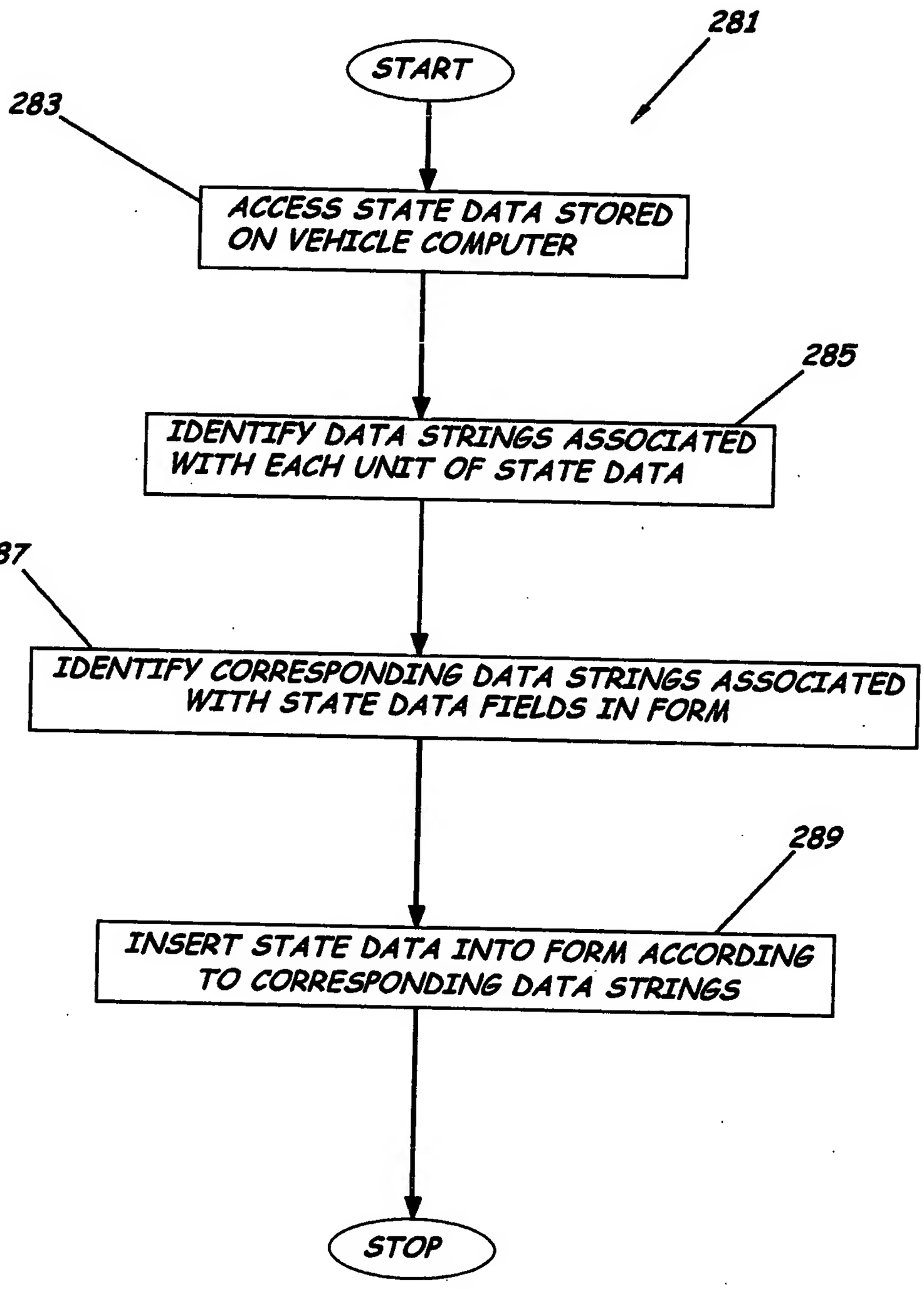

281
START
283
ACCESS STATE DATA STORED ON VEHICLE COMPUTER
285
IDENTIFY DATA STRINGS ASSOCIATED WITH EACH UNIT OF STATE DATA
287
IDENTIFY CORRESPONDING DATA STRINGS ASSOCIATED WITH STATE DATA FIELDS IN FORM
289
INSERT STATE DATA INTO FORM ACCORDING TO CORRESPONDING DATA STRINGS
STOP

FIG. 24.

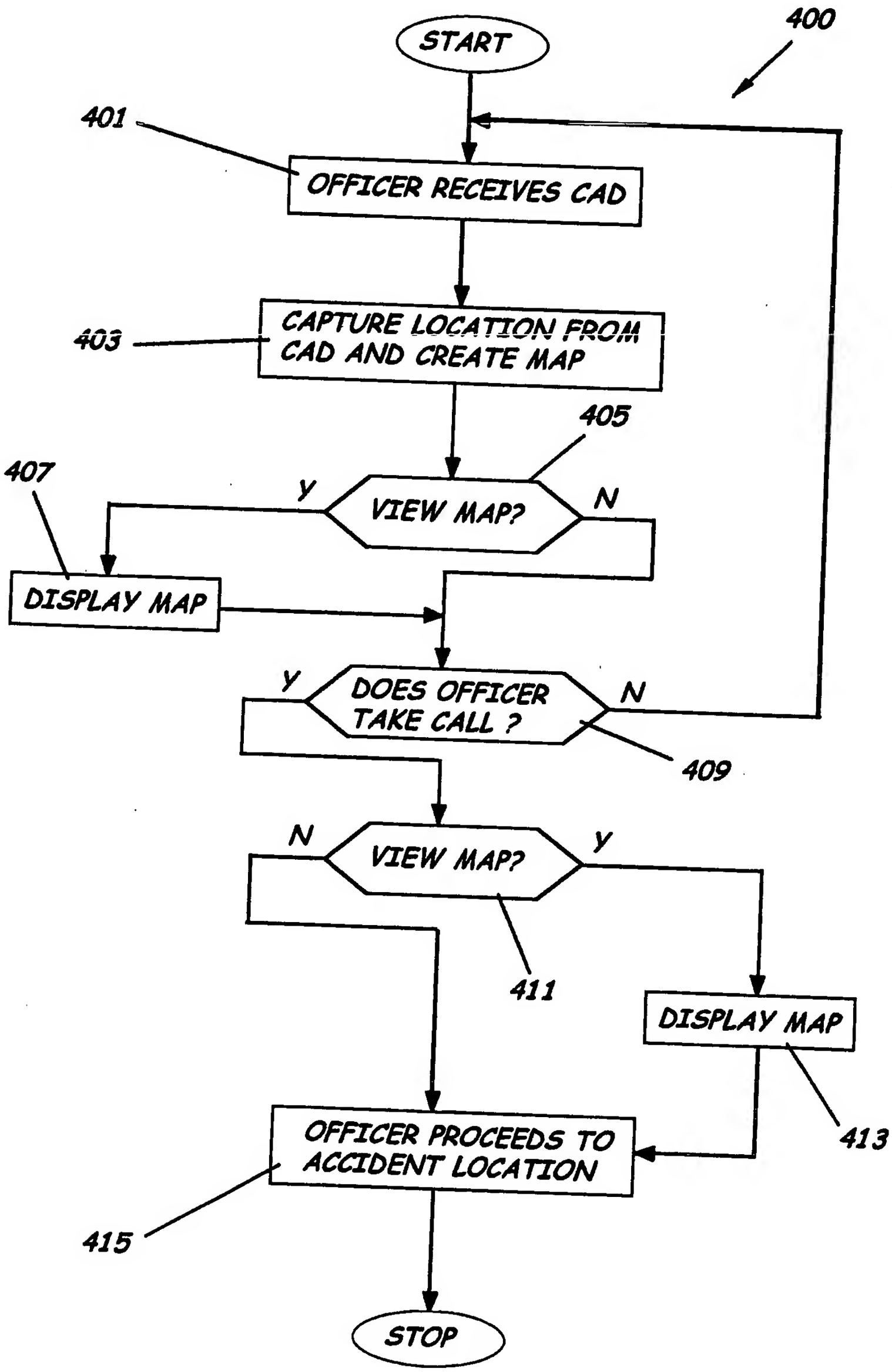

400
START
401
OFFICER RECEIVES CAD
403
CAPTURE LOCATION FROM CAD AND CREATE MAP
405
407
Y
VIEW MAP?
N
DISPLAY MAP
Y
DOES OFFICER TAKE CALL ?
N
409
N
VIEW MAP?
Y
411
DISPLAY MAP
413
OFFICER PROCEEDS TO ACCIDENT LOCATION
415
STOP

FIG. 25.